SERA

Amateur Radio FM and Repeaters in the SouthEast

Repeater Journal

The Official Voice of SERA, Inc.

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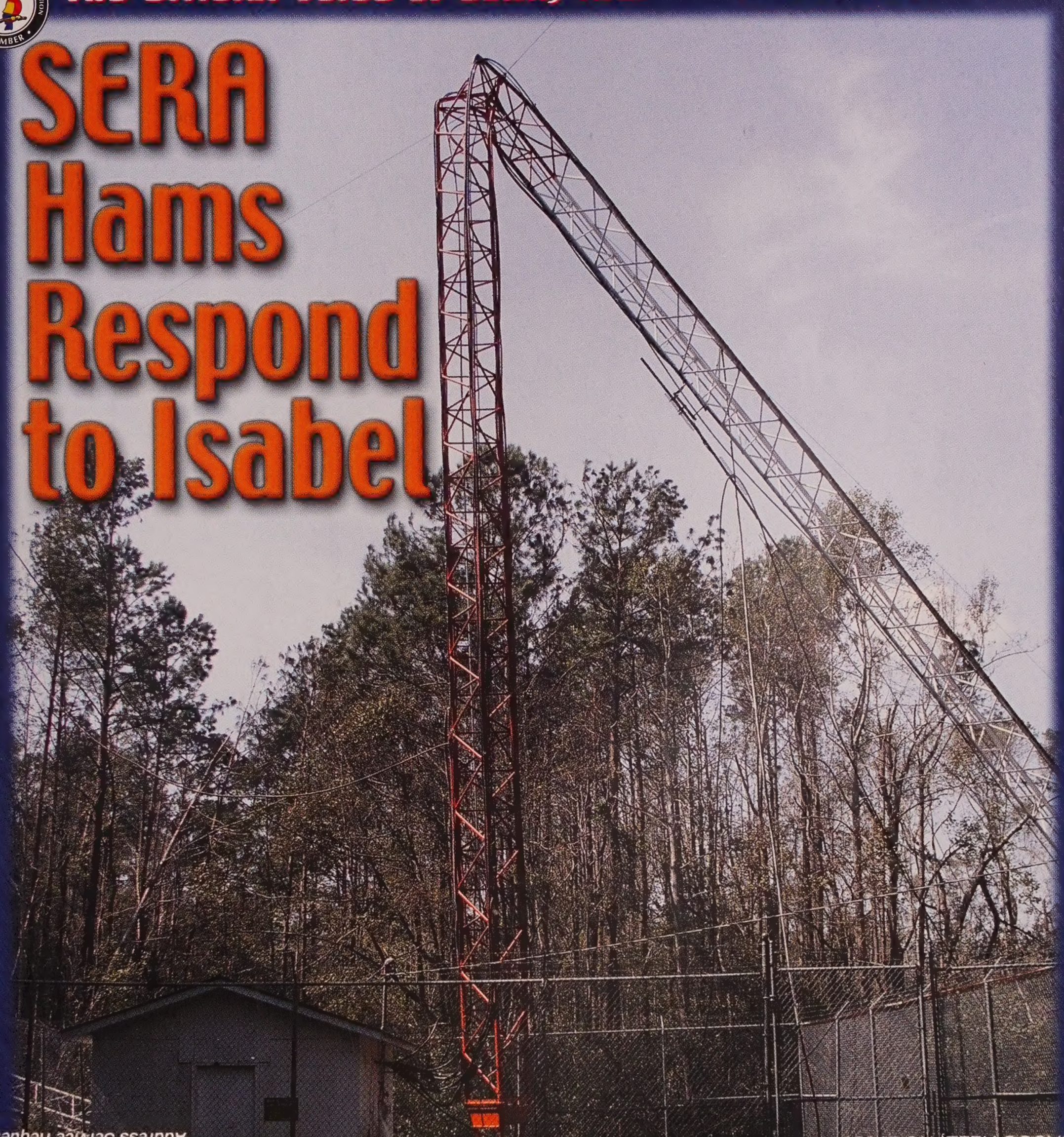
8 STATE REPEATER INDEX INSIDE

SERA Hams Respond to Isabel



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SERA

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Providing voluntary frequency coordination for Amateur Radio repeaters in Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia and West Virginia

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SERA MEMBERSHIP

Full Repeater Membership

(A Membership for Repeater Owners & Sponsors)

Any repeater owner or club may join SERA as a Full Member if they have a properly coordinated and operating repeater on the air. A Full Membership application, coordination information (if not on file), and the correct membership fee should be submitted.

Two individuals representing the full member repeater, named and listed on the application by the owner, receive the *Repeater Journal* each quarter.

The two Full Member Representatives have voting privileges in SERA elections and may be eligible to hold elective offices within the organization. The full member repeater is also recognized as a SERA supporter in the repeater index with a ☺ symbol. A Full Member application is available in this issue of the Repeater Journal, and on the SERA web site: **www.sera.org**.

Full Member dues are $20/year, pro-rated by quarter. All full memberships expire on December 31st of each year.

Associate Membership

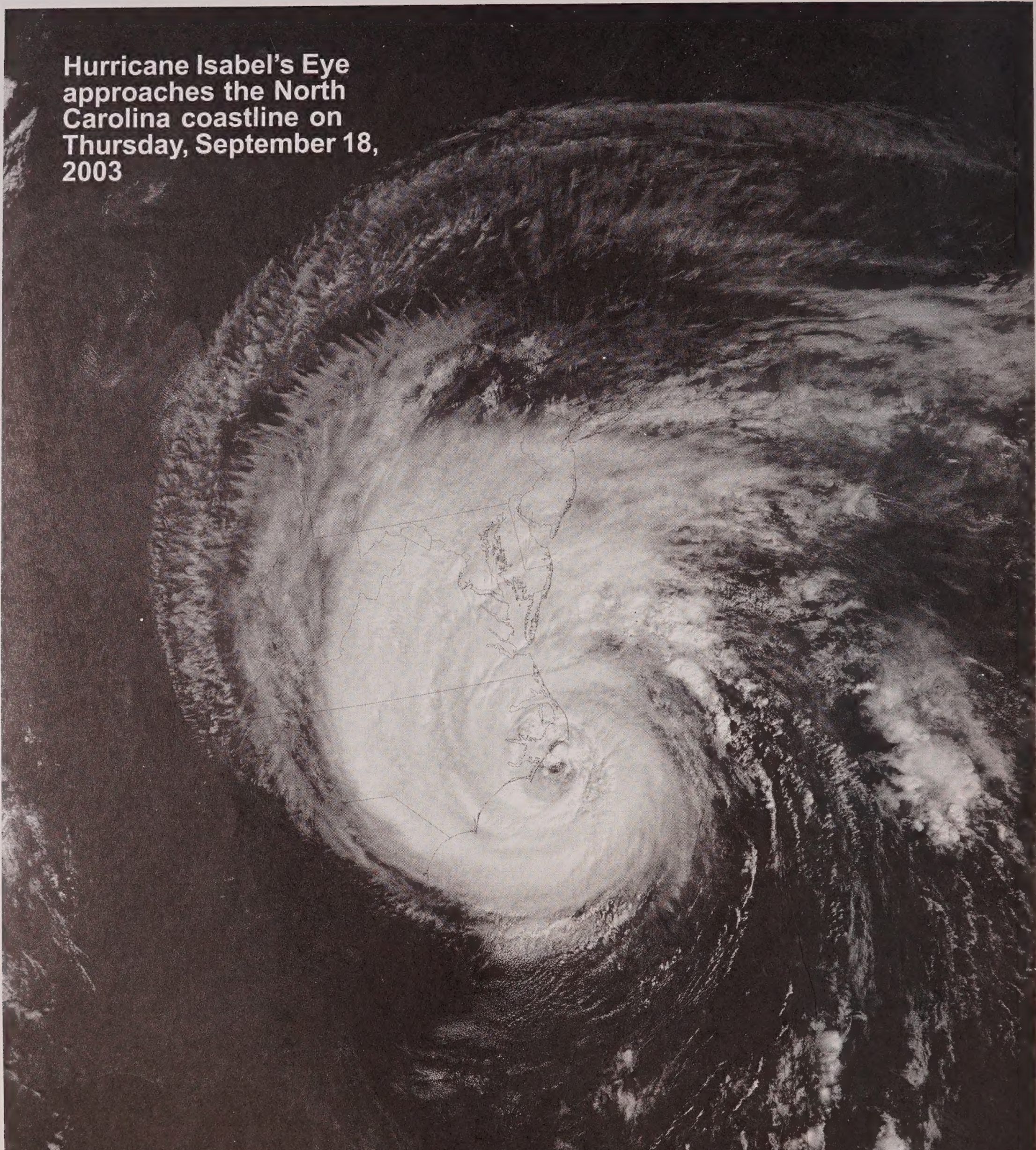
(A Membership for Repeater Users)

Amateurs Radio operators, especially repeater users, are invited to join SERA as Associate Members. Only $8.00 per year will enable you to support the organization and receive the *Repeater Journal.* Associate Members may hold appointive offices within SERA, but do not have voting privileges.

Associate Membership begins in the quarter you join, and dues are not pro-rated. Renewals are due in the same quarter in subsequent years.

REPEATER JOURNAL MAILING

The *Repeater Journal* is mailed Bulk Rate during the first week of the cover date. Delivery takes one to two weeks. Notify the **editor** if you have not received your copy by the 1st of the following month. **The Journal is *not* forwarded to new addresses. If you move, send your new address to the editor!**



Hurricane Isabel's Eye approaches the North Carolina coastline on Thursday, September 18, 2003

Photo courtesy of MODIS Rapid Response Team, NASA Goddard Space Flight Center

Hams Respond to Isabel

NORTH CAROLINA

REPORTED BY
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Repeater Journal COVER STORY

NORTH CAROLINA

Amateur Radio operators across North Carolina staffed EOC's, shelters, 911 centers, fire departments and any place communications were needed as Isabel crossed the northeast corner of the state on Thursday, September 18th. The picture to the left shows how big Isabel was - tropical storm force winds were felt 150 miles inland near Raleigh before the eye crossed the coastline.

Power failed sporadically from Greensboro on east, and was completely out everywhere east of Williamston. NC ARES Eastern Branch, covering the eastern third of the state, called for help from additional operators in unaffected areas, and many hams responded, heading east. Some drove through the hurricane on Thursday to help staff locations in counties with few hams. Others arrived on Friday to see a beautiful, sunny day, followed by a very dark night in a devastated area.

These reports were filed by hams responding to a *Repeater Journal* request, and extracted from club newsletters:

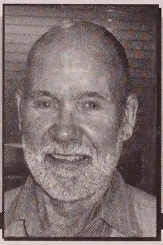
Jean DuPree KB4OHX, Lenoir County ARES EC, reported that the Lenoir County was staffed by 3 amateurs: one at the EOC, one at the shelter at Lenoir Community College and one at the Lenoir Memorial Hospital, from 7 PM Wednesday until 6 PM Thursday. Some of the county lost power for approximately 24 hours.

Bruce Arnold N8UTY, Craven County EC, reported a total of 21 hams were active in **Craven County ARES** at various times during Isabel and manned the EOC and shelters. The local ARES group was grateful for help from three hams who came to Craven County from other areas in NC. One of the best services the amateur radio community provided was giving people up-to-date travel hazard and flood warnings as they were preparing to leave the shelters after the storm. Craven County ARES maintained communications with ARES operations in Onslow, Lenoir, Carteret, and Pamlico counties for the duration, which was a goal they had been striving to achieve for a couple of years.

Mr. John Cole, Severe Weather Coordinator for the National Weather Service Office in Newport NC, sent the following note to Bill Sanford, **Carteret County ARES** Asst. Emergency Coordinator:

> Bill,
>
> Tom, I, and the rest of the staff, want to thank you for sending Lindsay and Tim (KC5OHY) Hale to operate SKYWARN from our office. Their efforts were incredible. They continued to receive and relay detailed reports for nearly 24 straight hours with

see *NORTH CAROLINA* on page 6



VIRGINIA

REPORTED BY
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VIRGINIA

ISABEL: THE NIGHT THE LIGHTS WENT OUT– AND STAYED OUT!

Your correspondent has witnessed, and read of, many examples of dedicated effort by hams during Hurricane Isabel. The first item for this column is to thank all of the *families* of those hams. Many of the hundreds of hams who operated from EOCs, Fire Stations, and shelters would not have been able to do so with out the support of their families. Hams like Bruce Powell KE4GFM in Isle of Wight County, 'Geep' Howell WA4RTS in Lynchburg, Lloyd Gatling W4LG in Suffolk, and Dave Damon K4DND in Albemarle County provided volunteer service for 30 hours or more. Behind every one of those hams was an understanding and supportive family that allowed them to provide untold hours of invaluable community service. I acknowledge the support of my wife, Jo KG4ZGC, who had to ride out the hurricane alone. Hopefully all who supported the volunteers will receive their just acknowledgment. Thank you.

At this time your correspondent, having received reports forwarded through Tony Amato KR4UQ and Carl Clements W4CAC, may have the most complete set of reports in the state. I have reports from:

- District Ten (Isle of Wight, Southampton, Town of Smithfield and City of Franklin.
- Augusta County
- Rockingham County
- City of Chesapeake
- NASA Langley Amateur Radio Club.
- Albemarle County
- Albemarle Amateur Radio Club
- Individuals supporting the Repeaters on High Knob
- Prince William County
- Venturing Crew 80 of Alexandria
- Sunbeam and Southampton County

see *VIRGINIA* on page 10

***NORTH CAROLINA* continued from page 5**

little or no sleep. I want you and all of the SKYWARN community to know how much we appreciate your sacrifice and dedication exhibited during hurricane Isabel!

Here's one example of a communication they relayed to us, which undoubtedly alleviated fears, and may have saved the lives of a family experiencing storm surge in eastern Carteret County in Davis Shores.

Tim and Lindsay relayed a report from a family in Davis Shores experiencing storm surge, with at least 2 feet of water in their home. The mother of the family wanted to know if water levels would rise any higher and if they needed to evacuate.

A report was relayed from the NWS that the worst of the surge had already occurred, as the eye of the storm was passing to the north. No doubt, this communication alleviated their fears, allowing them to shelter in the safety of their home, not putting them in any further danger by venturing out of their home and into the elements.

Your sacrifice and dedication are greatly appreciated by the NWS and fellow Eastern North Carolinians!

Sincerely, John Cole, WCM MHX

Bill Sanford, Carteret County ARES Asst. Emergency Coordinator, added the following:

Let me add a bit more to the story. The Amateur Radio Operator I had scheduled to man the station at the NWS became ill and was unable to deploy. We met Tim Hale KC5OHY when he visited the CCARS Field Day site and slammed out some serious CW contacts!

Tim called the Carteret County ARES EC Rich Wright KR4NU on Wednesday to offer his assistance if needed. At the very last minute Wednesday night, I called Tim and requested his assistance. Now Tim is not a member of CCARS or SKYWARN trained (not yet at least!!!), but he didn't hesitate after confirming that he could bring his bride.

With a quick brief, Tim and Lindsay were on their way to Newport. Tim not only kept the SKYWARN Net up to date, but also relayed important information to other county and regional nets. This being his baptism in SKYWARN operations during an actual hurricane, Tim performed a vital service, jumped in with both feet and acted as a seasoned pro! With Tim being a Marine, I expected no less and we all certainly got more.

Richard Marlin K4HAT stated that the **Outer Banks Repeater Association** repeater system was a real lifesaver and every part of it kept running. Richard also said it has been the ONLY mode of dependable communications. The Coinjock repeater was located over on Bodie Island, south of the Nags Head site because it's the primary repeater for everything north of Oregon Inlet, and the 145.15 repeater has done the same for south of the Oregon Inlet, thru to the now isolated "little" Hatteras Island. The remote crossband links that were set up in the villages like Ocracoke, "little" Hatteras and Rodanthe have really saved their tails.

Lionel Bryson N4YYL stated that the County Emergency Manager notified **Moore County ARES** on Wednesday afternoon that the EOC would be activated, along with ARES, at 8:00 AM Thursday. Eight local ARES members provided communications and/or staffed the EOC, the Red Cross HQ, and three emergency shelters at three schools from 8:00 Thursday morning until after 7:00 that night, when the shelters were closed. As cell phone service was unusable by about mid day Thursday, amateur radio was the only communications with shelters during most of the day. There were about 30 people housed in the shelters. The local ARES group was even mentioned in the local paper *(The Pilot)* in their report of the emergency.

Greg Sellers WB4HRR reported that the **Charlotte Area Skywarn Net & the Piedmont Emergency Training Net** activated into their "heads-up" modes of operation as Isabel approached the NC coast. The CASN net activated to provide necessary "ground truth" severe weather information from our eastern most counties to the GSP NWSFO. The PETN (which changes it's net name slightly to the Piedmont Emergency Traffic Net on an as needed basis) provided local & district wide ARES & NTS coverage in the 145.35 repeater's coverage area. Both nets activated until they were sure of Isabel's track, then stood down. ■

Eastern Branch coordinates NC response

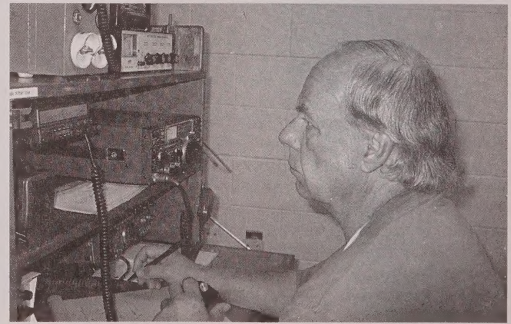
Bill Boyes KB1G

In the process of tracking Isabel for possible activation of Triad Skywarn, it became evident that the Piedmont would be spared the brunt of the storm. It was time to answer the call for Hams in the Eastern part of the state. My position was at the Eastern Branch EOC in Kinston. After discussions with the National Weather Service, I was advised to make my trip Wednesday night, rather than early Thursday morning. I arrived in Kinston at midnight and met Bernie WA4MOK, our SEC, and received an orientation prior to bedding down for the night.

The biggest impression from this exercise is no matter how much you think your ready, every activation is a learning experience. In the Triad, most emergency activities are held on non-linked repeaters. Some of these repeaters are capable of linking, but most of the time they stand alone. In the eastern part of the state, because of large gaps in geography, linked repeaters are heavily used. I have always had it drilled into me to establish a net control on the frequency, and have all stations go through the net control with any requests. This was problematic with a linked system with essentially several nets going on at once. It was a great lesson in a different way of doing things. Our role in the EOC was tactical support for requests of supplies and personnel. With 3 radios going, including HF, and a telephone, it sometimes took 3 Hams to handle the load. Besides a 3 element beam that became a rotatable dipole, we left pretty much unscathed.

My biggest impression was the sense of community pride and dedication of the Hams in the affected areas. Listening to EC's, and volunteers spend sleepless days selflessly making sure their communities were served was something to behold. It was an honor to be in their company, and they taught me a lot.

Hams that choose not to sacrifice time and comfort to serve the public are missing out on one of the biggest highs that a Radio Amateur could ever feel. Making a difference, even if it is just one welfare message to a worrying relative, is what we are all about, and time after time the Amateurs of NC come through. ■



NC Section Emergency Coordinator Bernie Nobles WA4MOK, operating the Eastern Branch station in Kinston. Eastern Branch was the logistics hub for NC Emergency Management and Amateur Radio.

Perquimins County loses emergency services tower

Repeater Journal COVER STORY

Gary Pearce KN4AQ

As the hurricane moved out of North Carolina Thursday night, I began hearing requests for hams from the counties in the northeast part of the state on the Tarheel Emergency Net and on ARES e-mail reflectors. After taking care of chores on Friday, I loaded up and headed east, right behind Dave KE4IAF from Greensboro.

The 146.835 repeater in Columbia was the hub of communications for the entire area. When we got in range, we announced our presence to the ARES Eastern Branch Headquarters station, NC4EB in Kinston. There was some confusion about just where hams were needed. Dave believed he should be headed to Perquimans County, where we heard they lost the tower carrying all police, fire and EMS repeaters. Eastern Branch didn't know anything about that, and nobody was on the repeater from that county. The Washington County EOC was on the air, requesting 10 hams to help, and a message came from Hyde County saying there were no hams, and no communications there.

When it all got sorted out, it turned out that the tower did fall in Perquimans County, hams were handling communications for 911 services, and they needed help. That's where we were assigned. Power was out to the entire county, and not expected to return for days or weeks. It was dark, very dark, when we arrived.

I ended up at the 911 center in Hertford, and found that the dispatchers had limited telephone service to the county, and some cell phone coverage. There were no radios or antennas at the 911 center except for a few handhelds. Their consoles talked only to the dead repeaters by wire.

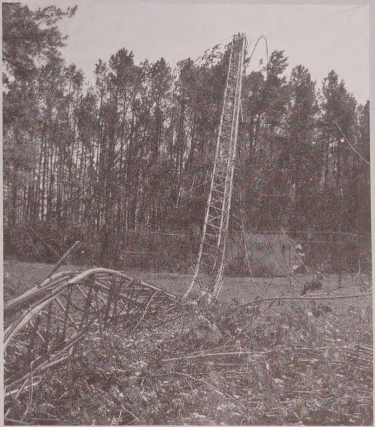
Hams manned some of the fire departments, one Rescue Squad, the EOC, a shelter and a material staging area at the High School. We used the Elizabeth City 146.655 repeater to communicate, sharing it with operations in neighboring Pasquotank County.

I put a dual-band antenna on the roof of the 911 building, running coax through a gap in the wall that was just a little too small for a coax connector (I had to squash the collar into an oval to get it through, then bend it back into a circle). I set up one of my handhelds that had been modified for out-of-band coverage on the city/county police UHF frequency, allowing the dispatchers to talk to police cars at least round town on simplex. The police radios had a channel set up for simplex - or "talkaround" as the commercial people call it - on the repeater output. I set up another radio on the VHF fire frequency.

By Saturday night, the county repeater technicians (both hams, but inactive because "we work on radios all day, and don't feel like playing with them when we get home") had been able to move the police repeater to another tower. Fortunately, the repeaters were not damaged when the tower fell. They brought in a mobile radio and replaced my HT, but kept using the dual-band antenna that I put on the roof.

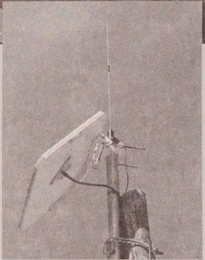
On Sunday, they found a tower and VHF antenna they could use for the Fire Dept. repeater. EMS would share the fire repeater for the time being. Our job was done, and I headed back to Raleigh on Sunday night, but many more hams stayed on into the week, in Perquimins county and many other areas.

The confusion about what areas needed hams was caused in part by the fact that the Perquimans EOC was using the Elizabeth City repeater, and was not routinely monitoring the Columbia wide-coverage machine. They sent out their request for operators on Thursday, and went back to work. So they didn't know we were available when we popped up on Columbia on Friday afternoon. Eastern Branch had passed the message along when they received it on Thursday evening, but evidently didn't keep it "hot." I can understand why that happened. When I started working at the 911 center, my attention focused entirely on getting things working there. The rest of the world disappeared until I headed back to Raleigh on Sunday.

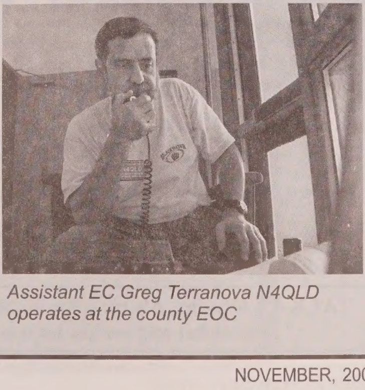


On the cover: *this is what remained of the 500 foot tower that carried all of Perquimins County emergency services radio communications.*

Below, Anthony operates the dispatch console, but can't talk to police cars or fire trucks without help from ham radio.



A dual-band mag mount antenna sits atop the pole for the satellite phone at the 911 center.



Assistant EC Greg Terranova N4QLD operates at the county EOC

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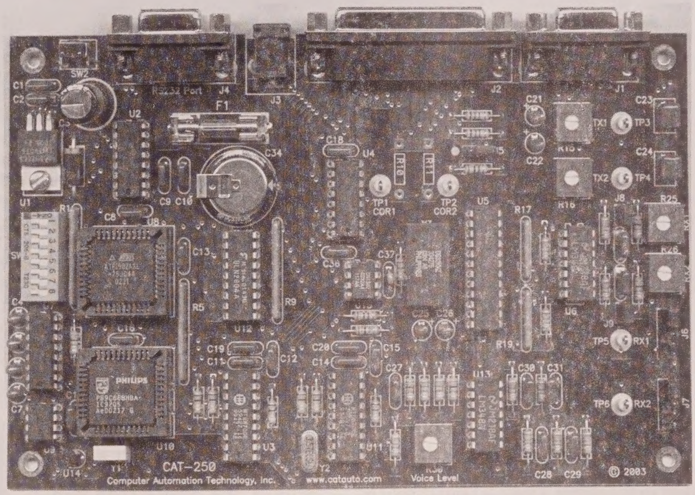

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***VIRGINIA* continued from page 5**

There is no doubt that more reports will be coming in as ECs and EROs give recognition to the many hams who contributed to the overall effort. As there is no accurate accounting of the enormous effort put forth by hams during the event; examples will have to suffice.

photo courtesy of KR4UQ, www.varaces.org

Power lines down in Chester, VA.

In Augusta County hams served in 3 EOCs, 4 shelters and 4 fire stations. Rockingham County lists 38 hams that contributed to the effort. These are just the few that I can document. It is safe to say that hundreds of hams contributed thousands of hours of volunteer effort to their communities and to their fellow citizens.

As a bit of time has passed, damage assessments become more refined and the long-term effect of Isabel sinks in. The Norfolk Botanical Gardens has canceled its Christmas display. Over 400 trees were lost in the storm. Virginia Department of Transportation estimates that 100 million dollars will be required for storm clean up. This is 26 million more than is budgeted for the whole year for this type of work. In a neighborhood in Norfolk where I am working now, several large old trees were blown down. As their root balls rolled up from earth they brought with them the curbing, part of the street pavement, the sidewalk and the underground water and gas lines. The quantity of debris is being estimated in the millions of cubic yards and citizens are being asked to be patient relative to its removal.

Overcoming problems is the forte of hams when the power goes out. Repeaters on battery power, hams with a little battery power and an antenna continued to do the job. I have reports from several locations that had problems when the generators kicked in. At Beverly Manor Middle School in Augusta County only 60 volts was available (indicating that a ham had a voltmeter in the go kit?) In Smithfield the generator was overloaded and cut off. Dealing with power off and inadequate generator capacity was the order of the day.

My story of Hurricane Isabel is actually typical of the many Virginia Amateurs committed to ECOMM. Local municipal EOCs were activated beginning at mid day on Thursday September 18th. Hams providing communications support went to work. I turned on the radios in the City of Franklin Communications Center some time before 7PM. And many of us did not come away from our stations until nearly noon on Friday.

During the night the power went out. The generator kicked in almost seamlessly at Franklin PD. The generator there has sufficient power to run the critical air conditioning system in the Communications Center. So, for the duration of the hurricane, I was in relative comfort. Some of the phones in the city were out, but a communications emergency did not develop. Communications between the EOC and Richmond remained intact for the whole event. In fact, the only traffic passed between the shelter and the EOC was a fax!

The wisdom of having Amateur Radio Communications at shelters was demonstrated locally as I am sure happened in other places. When the power went off, the phones at the shelters did not work. The computer systems in the schools control the phones; no power, no computers, and no phones.

At the Franklin EOC we lost the intranet service (and with it internet) when the power went out and the 'not on emergency power' server went out. We had a weather satellite feed that worked the whole time and I watched the eye come right over Cape Hatteras and sort of go away as it hit the North Carolina mainland

Isabel will be remembered for trees down and power out. During the storm, Franklin officials attempted to keep track of the streets and intersections that were blocked with downed trees, but so many trees were down that accurate tracking was not possible.

"Yes, trees and power lines are down all over the city." This was the all too familiar refrain the dispatchers with whom I was riding out the storm. In neighboring Isle of Wight County it was, "All roads in the county are considered impassable." The local Skywarn operator Joe Wagner KO4RK, then operating as WX4AKQ, was not taking reports of a single tree down. Only reports of multiple trees or major property damage were being taken on the air.

Repeaters play a vital role in AR Emergency communications. Here in the Southeastern part of Virginia, we are fortunate to be able to maintain reliable communications with the Virginia EOC in Richmond using several different repeaters. The primary repeater during activation is the 146.76 in Williamsburg. This robust wide-coverage gives many municipalities immediate access into the VAEOC. This machine was off the air several times for brief periods, but for the most part provided yeoman service. From Franklin City, we can also hit several North Carolina repeaters that are part of the Costal Emergency Link Net. This gives us regional, reliable communications into large parts of two states.

Shelter occupancy both locally and statewide would seem to indicate that folks take seriously the recommendation to evacuate. The City of Franklin had over 100 people being served. It was estimated that over 1000 individuals were served at four local shelters. Shelter population counts of 400 were noted for several shelters. AR communications available to these displaced individuals can be vital.

HF operations on the Old Dominion Emergency Net are the primary link between local jurisdictions and the VAEOC in many areas of the state. It also remains a key backup throughout the state.

Emerging into the sunlight on Friday about noon, I was shocked at the damage. Trees were knocked down almost everywhere. Traffic signals dangling from their wires, signs down, utility poles snapped, trees and debris blocking the roads added up to a sight not soon forgotten. I noted a number of those corrugated steel carports that are popular around here had been damaged – so many that I later told someone that I thought there had been more of them in the air than on the ground during the hurricane.

photo courtesy of KR4UQ, www.varaces.org

Cleanup had already begun. Crews and citizens with chainsaws had carved a path on most of Route 258. Back in Zuni it was nap time. Then it was time to help neighbors with generators. The sound of generators droning was ever present. Over a million customers were without power. Thousands of customers are still without lights as I am writing this a week and a half after the storm. When I called the net on Sunday, two hams reported 9 days without power. Many lamented the loss of their frozen vegetables or made dedicated effort to protect those prized summer veggies. Many people were still without their cable/internet service.

Veterans of the 1999 visit of Hurricane Floyd were sensitive to the possibility of flooding. The river rose steadily. By comparison, Floyd's flooding occurred very rapidly. On a US Geological Survey sensor near Franklin, Floyd set the record at 26.4 feet. Isabel came up to 16.8 feet. This is nothing to sneeze at and puts her at Number Four on the all time list, just missing the Number Three spot by a few inches.

On Saturday the 20th the telephone service between Isle of Wight County and Richmond became unreliable and local hams were reactivated. Hams remained on duty there until early Sunday. The last Amateur stations that secured in this part of the state did so around 6:00PM on Sunday the 21st.

One sad casualty of Isabel's visit was the **Virginia Beach Hamfest**, slated for the weekend after the hurricane hit. In an earlier column I had commented on the tenacity and flexibility of the organizers. This year they had a new location at Virginia Wesleyan College, and what would have been a unique schedule, starting at noon in Saturday. Many local hams were planning to attend, and my Virginia SERA colleagues were going to have a table there both days. The event was cancelled for 2003 As Isabel drew a beeline for Virginia Beach. We hope to see it back next year.

Just a few trees were knocked down here in Podunk and no damage to the buildings. As I am not on the grid, there was no power disruption. In fact, I even loaned my generator to Chris Hanslits KA8UNO. We did lose phone service briefly. And, no I was not gloating. A lightning strike in July that took out my inverters and the well pump provided a dose of humility when I was the only one out of electricity.

photo courtesy of KO4RK, www.varaces.org

WA4UVV and formerly new shed

60 METERS

There is just one non-Isabel item that I am going to put in this column – 60 meters. Repeaters work great, but HF is a critical part of the equation for ECOM. Here is information from **Ed Harris KE4SKY** on a net being formed on this new band. It is intended to encourage hams to develop 60m stations and to become familiar with operations in the 5 MHz area:

On Wednesday October 1, I will call the first of what I hope will be a continuing series of **Mid-Atlantic region RACES coordination nets,** to take place on the first and third Wednesdays of the month at 2000 hours, Eastern time, on 5330.5 USB. If the primary working frequency is already in use at net time, scan up the band and listen for net control on one of the other shared 60 meter channels.

The purpose of the Mid-Atlantic RACES Coordination Net is to encourage all amateur radio emergency communicators to develop a capability on 60 meters to enable its effective use as an alternative to 40 and 75 meters, as may be needed during periods of unfavorable operating conditions, for regional emergency communications. To accomplish this goal the net will conduct twice monthly tests and seek interested representatives of ARES, RACES and other groups to appoint liaisons and develop a rotating net control schedule to be shared among all states in the coverage area.

Alternate NCS and net liaisons are especially sought from Delaware, the District of Columbia, Maryland, New Jersey, New York, North Carolina, South Carolina, Virginia and West Virginia, but are welcome from anywhere within reliable communication range of the net, based upon current band and operating conditions.

If you or your organization would like to volunteer as a net control for any session of the MARCN please contact **ke4sky@att.net**.

Thanks to all who submitted and forwarded reports.

73 bki>

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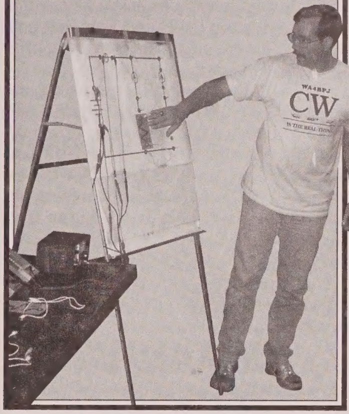
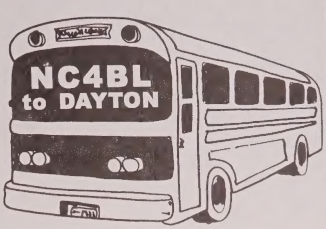


Dayton Hamvention by Coach



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Danny Hampton K4ITL (seated) with Frank Lynch W4FAL at the SERA booth at the 2003 Raleigh NC Hamfest.

K4ITL Wins ARRL Tech Services Award

SERA's North Carolina Director Danny Hampton K4ITL is the recipient of the ARRL 2002 Technical Service Award. Hampton is the architect of the Piedmont Coastal Repeater Network (PCRN - **www.pcrn.net**).

PCRN is the widest coverage all-RF linked repeater system in North Carolina. The network also includes repeaters in South Carolina, Virginia and West Virginia.

Membership-supported PCRN owns many of the repeaters , while others are network affiliates. Most of the repeaters are wide-coverage two meter machines on tall towers or mountaintops. The "flagship" repeater is the 146.88 machine in Raleigh, at 1400 feet on a TV tower southeast of the city.

The repeaters are tied together by several 220 and 440 MHz "backbone" repeaters. Hampton tweaks keyup timing so that there is no delay in keyup (no "push the button and wait a second before you talk") that is common on linked repeater systems. And he adds custom audio processing boards, so the audio at the far end of a link is as good as it is on the originating end. The processor also has some speech compression that brings up the level of undermodulated signals.

Much of the hardware comes from surplus GE Mastr II radios, which Hampton repackages in custom cabinets.

PCRN repeaters are heavily used for public service work – ARES, SKYWARN and special events like the MS-150 bike tours and the ADA Tour de Cure. Hampton has also built and secured tower space for several NOAA transmitters that broadcast weather information. He is currently helping hams in the coastal area with a project tying hospitals together for emergency communications by Amateur Radio.

In addition to his SERA NC Director post, Hampton is SERA technical committee chairman, as well as ARRL North Carolina Section Technical Coordinator. "Danny's extensive knowledge of the two-way and broadcast radio industries in this state have enabled him to assist many repeater owners," said North Carolina SM John Covington W4CC. "His advice in resolving RFI problems between repeater and commercial services, and other technical matters, has been extremely valuable to the Section."

The winner of the Technical Service Award receives a $100 ARRL gift certificate and an engraved plaque.

Some information for this story came from the ARRL web page.

National Hurricane Center adds Internet linked repeaters to reporting network

The National Hurricane Center in Miami, well-known in Amateur Radio for its 20 meter net (14.325 MHz) during hurricanes, has added equipment to monitor IRLP and Echolink conferences for reports from hams on VHF/ UHF FM repeaters.

The NHC first used IRLP to take reports during Hurricane Lili in October, 2002 (see the November, 2002 *Repeater Journal,* page 18). Earlier this year, the NHC participated in a nationwide SKYWARN test with both IRLP and Echolink conferences, with hundreds of hams checking in from each system.

During Hurricane Isabel, the system showed a few wrinkles to iron out. For a time, Danny Musten KD4RAA in Raleigh tied the IRLP 9210 "East Coast Reflector" to the Echolink "WX Talk" conference, so stations on either system were connected. That created some confusion at the NHC, which was monitoring both systems on separate repeaters, and got an echo.

Musten said that there was some trouble with Echolink connected repeaters, which were sending beeps, ID's and hang-time/ squelch tails to the network. IRLP repeaters are more controlled, and are not permitted to put that stuff on the network.

The operation seemed to lack some focus, like there was too much going on for one audio channel, and no central control. There was a station feeding one-way audio from the Outer Banks repeaters onto the Echolink WX Talk conference. There were repeaters connected in areas that were preparing for the hurricane, and repeaters from other parts of the country (and world) connecting with people asking "hey, what's going on?" Echolink had the advantage of posting "Hurricane Isabel" as a headline for those connecting by computer, while IRLP operators could drop in on the East Coast Reflector and not know what they were in the middle of. It will take some planning to better decide how and when to connect repeaters.

Power and phone line failures are another consideration when using the Internet to link to a disaster area. Some systems worked throughout the storm, but some disappeared, including the feed from the Outer Banks when phone service failed. Internet connections, link radios and computers all add points of failure. Danny Musten's system in Raleigh, on the edge of the hurricane, lost power, computers, links and repeaters at one time or another. Musten said he kept busy moving services from one system to another to keep everything working.

A link to the world can be a problem for a repeater busy with local traffic. K4HAT on Hatteras Island said he "pulled the plug" on Echolink during the storm recovery because there were too many people dropping in to ask how things were going. Lots of people wanted to hear the traffic, though. An alternative would be a one-way connection that would let people listen in, but not talk back.

NHC GUIDELINES

The National Hurricane Center sent the *RJ* this short set of guidelines for communicating with them during a hurricane:

1. Check into the Net using your Callsign only and wait for acknowledgement by Net Control before submitting any reports.

2. Please give priority to stations in the Hurricane affected area. Use "Break Break Break" only for an Emergency.

3. When specifically called by Net Control, please submit your Hurricane Weather Report following the established form as close as possible. We are also interested in tornado sightings and damage reports.

4. WX4NHC will then acknowledge your report and confirm reception, or ask for any repeats or queries. So please standby for any possible follow-ups from NHC.

5. All standard Net Procedures and behavior are to be followed.

6. Please use measured data if you have your own weather measuring instruments. Do not repeat weather data already made public on broadcast TV or radio, we already get that data from NWS.

7. Your personal safety is the number one priority. We do not want anyone to venture out of their protective shelter during a hurricane to get a weather or damage report.

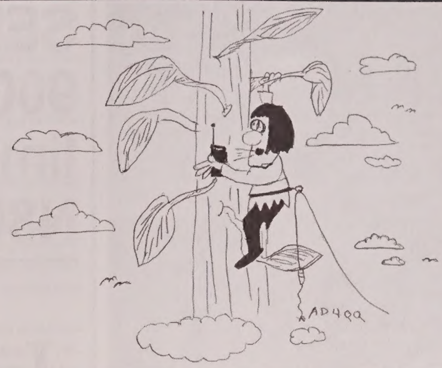
Non-Hams are invited to submit their Hurricane Weather or Damage Reports using the WX4NHC On-Line Hurricane Report Form at:

www.fiu.edu/orgs/w4ehw/WX-form1.html

During Isabel, the procedures didn't work quite as planned. The NHC seemed to be set up to listen to a network that only had traffic for them, as on their 20 meter net. But the linked system had a greater variety of traffic.

Despite the problems, Internet linked repeaters will provide a valuable resource to the NHC, NWS and emergency management wherever a disaster strikes. It will be an effective tool that just needs a bit more management to reach its full potential. ■

JournalJester
Don Phibbs AD4QQ



This is Jack... how high did you want that dipole tied?

NHRC
REPEATER CONTROLLERS

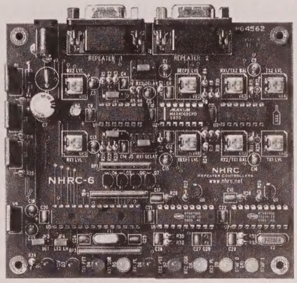


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Photo courtesy of Newsline

Roy Neal K6DUE SK

Retired NBC News science correspondent, producer and executive Roy Neal, K6DUE, of High Point, North Carolina, died August 15, after undergoing major heart surgery three days earlier. He was 82.

Recognized nationally as a leading news expert in spaceflight and science, Neal had retired to High Point about 15 years ago. During his career he covered the early days of NASA's human space flight program, including the Mercury, Gemini and Apollo missions and the early shuttle flights. Neal's space news experience led him to become involved with the Space Amateur Radio EXperiment (SAREX) and Amateur Radio on the International Space Station (ARISS) programs. Neal chaired the SAREX/ARISS Working Group and moderated ARISS international team gatherings and, quite often, school group contact teleconferences.

Earlier this year, he was inducted into the CQ Amateur Radio Hall of Fame for his role in persuading NASA officials to allow Amateur Radio operation from space in the 1980s.

High Point Amateur Radio club member Fred Blackman W4FB described Neal as "one of the most interesting people that I've ever known." The two traveled to area hamfests together, and Blackman says Neal would talk about his experiences in the radio and television business, but little about ham radio. Neal operated local repeaters a little, but most of his hamming was on HF. Blackman said they couldn't leave for hamfests until 10 AM, after Neal's Saturday morning schedules with friends around the world.

Chris Horne W4CKH said that Neal was an honorary member of the HPARC and gave the club several presentations on SAREX and space.

(Some information for this story came from ARRL bulletins)

SERA Board modifies 900 MHz FUP, gives limited support to N8EKA proposal

Gary Pearce KN4AQ

In e-mail voting during August and September, the SERA Board decided to modify the SERA 900 MHz band plan (Frequency Utilization Plan, or FUP) to accommodate the frequency limitations of available commercial equipment. After considerable discussion, the Board decided not to fully endorse the coordination plan proposed by Georgia Assistant Director Vester Scott N8EKA at the June Board Meeting, and outlined in the August 2003 *Repeater Journal* ("The 900 Band: There's still time to do it right!")

The change the Board approved on a motion from Mississippi Director Steve Grantham AA5SG called for SERA to:

> create itinerant (portable) repeater allocations in both the 25 MHz and 12 MHz repeater offset plans. Existing repeaters on these new itinerant repeater pairs would be grandfathered and have the option to change frequency.
>
> 902.4875/927.4875 – New itinerant repeater allocation
> 902.5000/927.5000 – New itinerant repeater allocation (local option per grandfather clause)
> and
> 907.1000/919.1000 – New itinerant repeater allocation
> 907.2000/919.2000 – New itinerant repeater allocation
>
> The proposal would allow 902.5000 MHz to be used for simplex on those 800 MHz rigs Vester says have to "coaxed" to 902 MHz, but cannot reach 906 or 927 MHz, and would also allow 927.5000 MHz to otherwise be used for simplex per Vester's recommendations.
>
> The remaining previously defined simplex allocations in the band would be unchanged.

After this change was approved, Grantham made a second motion that would direct SERA coordinators to "where practical, ... make frequency coordination assignments to those applicants in ascending sequential order from the pools of numbered assignable pairs as defined, while keeping an eye toward optimizing the prospects for cellular-type reutilization of those repeater frequencies at a minimum co-channel distance of seventy-five miles." He also included the recommendation for using the single 100 Hz CTCSS tone.

Scott's plan called for recommending that 900 MHz band repeaters be coordinated on just three frequency pairs (four if "absolutely needed"), all using 100 Hz CTCSS. The purpose, as he wrote in his article, "is to find a way to get by for mobilin' and simplex anywhere in the USA, using the ten channels maximum available on a typical converted commercial 900 radio.

During e-mail discussion, it became obvious that the SERA Directors were not going to approve the motion. They had technical concerns that a "cellular" approach would not work for hams who have limited resources in finding repeater sites, and that a single CTCSS tone would be a problem during band openings. They also felt that SERA should not advocate this much management of Amateur repeater systems. They did think, however, that the program could be implemented voluntarily by individual coordinators and repeater owners who wanted to be part of the plan.

The result, shown on the 900 MHz FUP on the SERA web site, is that the band plan pairs for both 12 MHz and 25 MHz offsets are listed in sequential order (1st pair, 2nd pair...), with the recommendation that the pairs are "assignable in order." As new 900 MHz repeaters are built, coordinators and owners can opt to make them part of the "10 Channel Plan," or not.

LEARN MORE ABOUT 900?

Want to learn more about the 900 MHz (33cm) band, including available equipment and resources? Regardless of whether you're a "been there–done that" 900 Elmer or a 900 newbie, you'll find plenty of company in the **Yahoo AR902MHz group.** Check it out, at:

http://groups.yahoo.com/group/AR902Mhz

You can also download a pdf copy of Vester's article "The 900 Band: There's still time to do it right!" from the August issue of the *Repeater Journal.*

The NEC and U

Jerome Buie KB4POA and Art Varga WA9LXT

Ever wonder what the National Fire Protection Association has to say about your amateur radio station? The NFPA is the body that developed the National Electric Code® (NEC). The primary purpose of the NEC is to set standards which promote safety. It does not provide construction methods or practices. The code is intentionally written to allow flexibility in the implementation. Local building authorities in most states have adopted the NEC as requirements for construction standards. These standards have become the law and must be observed. Some jurisdictions have made additions and modifications to the NEC to suit special local conditions. However, this article will only address NFPA code and not any unique local requirements.

Enforcement of these regulations is normally performed when a building is being constructed or major changes are required. Unless you are building a new home you may never have to comply with the codes. However, for you and your family's safety, it would be prudent to maintain compliance with the NEC as you build your station.

Any wiring changes you make to your house to accommodate your station should be made in accordance with the sections of the code that relate to residential wiring. Article 810 of the code applies directly to receiving and transmitting stations. It also refers to any radio noise suppressors that are connected to power-supply leads; they must be listed. This means they will have a stamp stating that they comply with NEC requirements and you must protect them from physical damage.

Wire antennas and lead-in conductors must be made of hard-drawn copper, bronze, aluminum alloy, copper-clad steel, or other high-strength, corrosion-resistant materials. Soft or medium-drawn copper is only permitted for lead-in conductors where the maximum span between supports is less than 35 feet. Antennas and lead-in conductors must be securely supported and must not be attached to the electric service mast. Don't connect them to poles, or similar structures carrying open electric light, power wires, or trolley wires. Make sure that all insulators used to support antennas and lead-in wires have sufficient mechanical strength to safely support the conductors. Lead-in conductors must be securely attached to the antennas.

Antennas and lead-in conductors from antennas to a building must not cross over open conductors of electric light or power circuits, and must be kept well away from all such circuits to avoid the possibility of accidental contact. Where proximity to conductors cannot be avoided, the installation must provide a clearance of at least two feet. When possible, antenna conductors should be installed so as not to cross under open electric light or power conductors.

Splices and joints in antenna spans must be mechanically secured with approved splicing devices or by other means that will not appreciably weaken the conductors. Masts and metal structures supporting antennas must be grounded in accordance with Section 810-21.

The physical aspects of antenna conductors and self-supporting antennas for *receiving* stations and *transmitting* stations are similar, but transmitting stations have additional requirements that will be covered later. The conductor sizes for receiving stations are as follows.

Minimum Conductor Size vs. Maximum Open Span Length

Materials	Length < 35 ft	Length 35 – 150 ft.	Length > 150 ft.
Aluminum alloy, hard-drawn copper	19 AWG	14 AWG	12 AWG
Copper-clad steel,Bronze, or other high-strength mat'l.	20 AWG	17 AWG	14 AWG

Self-supporting antennas, such as vertical rods, dishes, or dipole structures must be made of corrosion-resistant materials and of strength suitable to withstand ice and wind loading conditions. They must be located well away from overhead conductors of electric light and power lines to avoid the possibility of the antenna or structure falling into or making accidental contact.

Lead-in conductors from receiving antennas must have a tensile strength at least as great as that of the conductors for the antennas as specified in the table above. Lead-ins consisting of two or more conductors that are twisted together, enclosed in the same covering, or are concentric; the combination will be at least as great in size and have tensile strength as that of the conductors specified in the above table.

Lead-in conductors from receiving antennas that are attached to buildings must be installed so that they cannot swing closer than two feet to the conductors of circuits of 250 volts or less, or 10 feet to the conductors of circuits of over 250 volts. In the case of circuits not more than 150 volts between conductors, where all conductors involved are supported to ensure permanent separation, then minimum permitted clearance may be reduced to not less than four inches.

Clearance between lead-in conductors and any part of a lightning rod system shall not be less than six feet. Underground lead-in conductors must be separated from any light or power circuits by at least 12 inches.

Indoor antennas and lead-ins must not be run nearer than 2 inches to conductors of other wiring systems in the premises, except where such other conductors are in metal raceways or cable armor, or where permanently separated from such other conductors by a continuous and firmly fixed nonconductor, such as porcelain tubes or flexible tubing. Indoor antennas and indoor lead-ins are permitted to occupy the same box or enclosure with conductors of other wiring systems where separated from the other conductors by an effective permanently installed barrier. The use of electric supply circuits for receiving antennas is permitted in Section 810-19 providing that the receiver is connected via a listed device.

Antenna discharge units are required for receiving stations. Each conductor of a lead-in from an outdoor antenna must be provided with a listed antenna discharge unit, except where the lead-in conductors are enclosed in a continuous metallic shield that is either permanently and effectively grounded, or is protected by an antenna discharge unit. Antenna discharge units must be located outside the building or inside the building between the point of entrance of the lead-in and the radio set or transformers, and as near as practicable to the entrance of the conductors to the building. The antenna discharge unit must not be located near combustible material nor in any hazardous location where ignitable vapors and gases, dust, and volatile flammable liquids may be present. Antenna discharge units must be grounded in accordance with Section 810-21.

Grounding conductors may be made of copper, aluminum, copper-clad steel, bronze, or similar corrosion-resistant material. Aluminum or copper-clad aluminum grounding conductors should not be used where there is direct contact with the earth, masonry, or other corrosive conditions. Aluminum or copper-clad aluminum should not be installed within 18 inches of the earth. Insulation on grounding conductors is not required by the NEC.

Grounding conductors must be securely fastened in place and may be directly attached without the use of insulating supports. Where proper support cannot be provided, the size of grounding conductors may be increased so they become self-supporting. Mechanical protection must be provided for exposed grounding conductors to protect them from physical damage. The size of the conductor may be increased to compensate for lack of protection. When grounding conductors are run in a metal conduit or raceway, both ends of the raceway must be bonded to the grounding conductor or to the same terminal or electrode to which the grounding conductor is connected.

Grounding conductors from antenna masts or antenna discharge units should be run in as straight a line as practicable to the grounding electrode. The grounding conductor should be securely fastened to the nearest accessible location on: the building structure grounding electrode system, the grounded interior metal water piping system, the power service ground, the metallic power service raceway, the service equipment enclosure, or the metal enclosure of the system grounding electrode. Interior metal water piping should not be used if located more than five feet from the point of entrance to the building. Make sure that the inside water piping is electrically bonded around a water meter or insulating joints. It is preferable to connect grounding conductors to a metal underground water pipe that is in direct contact with the earth for 10 feet or more.

Grounding conductors may be run inside or outside the building and should be no smaller than No. 10 copper or No. 8 aluminum wire. A single grounding conductor is permitted to serve for both protective and operating ground purposes. Bonding jumpers connected between the radio equipment grounding electrode and the power grounding electrode system at the building, or structure served where separate electrodes are used, are required to be No. 6 copper equivalent or larger.

All previously mentioned requirements for materials, supports, clearance, splices, and grounding apply to antenna systems of Amateur transmitting stations as well.

The following table show the sizes of antenna conductors for transmitting stations.

Minimum Conductor Size vs. Maximum Open Span Length

Materials	**Length < 150 ft.**	**Length > 150 ft.**
Hard-drawn copper	14 AWG	10 AWG
Copper-clad steel,Bronze, or other high-strength mat'l.	14 AWG	12 AWG

Lead-in conductors for transmitting stations, for various maximum span lengths, must be at least as great as that of the conductors for antennas shown in the above table.

For transmitting stations, antenna conductors attached to buildings must be securely mounted at least three inches clear of the surface of the building on nonabsorbent insulators, except where lead-in conductors are enclosed in a continuous metallic shield that is permanently and effectively grounded. Lead-in conductors, other than types enclosed in a continuous metallic shield, must enter the building by one of the following methods: through rigid, noncombustible, nonabsorbent insulating tubes or bushings; through an opening provided for the purpose in which the conductors are firmly secured to provide a clearance of at least two inches; or through a drilled window pane.

Lead-in conductors to radio transmitters must be installed and located so as to make accidental contact with them difficult. Each conductor must be provided with an antenna discharge unit or other suitable means that will drain static charges from the antenna system. The NEC provides exceptions for lead-ins that are protected by a continuous metallic shield that is permanently grounded and where the antenna is permanently and effectively grounded.

The minimum size of protective grounding conductors for transmitting stations should no smaller than No. 10 copper, bronze, or copper-clad steel wire. Remember, this is for safety only. The NEC states that the size of the operating grounding conductor must not be less than No. 14 copper wire or its equivalent. In practice however, an operating ground conductor may need to be much larger.

Interior installations for transmitting stations require that all conductors inside the building must be separated at least four inches from the conductors of an electric light, power, or signaling circuits. Transmitters must be enclosed in a metal frame or grille, or separated from the operating space by a barrier or other equivalent means, and all metallic parts of the enclosure must be connected to ground. All external metal handles and controls accessible to the operating personnel must be grounded. All access doors must be provided with inter-locks that will disconnect all voltages over 350 volts between conductors when any access door is opened.

Compliance with the NEC does not guarantee that your station is totally protected against lightning strikes, but it is a good beginning point for building a safe and effective station.

LEARN MORE?

For more information on station grounding and lightning protection, we suggest reading "Lightning Protection for the Amateur Station," written by Ron Block, KB2UYT. This three-part article was published in the June, July, and August 2002 issues of *QST* magazine. During thunderstorms, you still may wish to disconnect your antenna system. The April 2002 issue of QST features a handy lightning detector device, designed by Bob Radmore, N2PWP. It provides a warning that could protect you and your station from early expiration.

SERA Repeater Journal
The Official Voice of SERA, Inc.

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HAMFEST: Advertising must be ordered each edition for insertion. Payment must accompany nsertion order/advertising copy for Hamfest ads.

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INSIDE DISPLAY ADS - Design, typesetting & layout is available at no charge for advertising to be run in the *Repeater Journal.* Adobe Acrobat PDF Proofs are available for ads that we design.

The *Repeater Journal* cannot be held liable or responsible for errors in advertising, or to the quality or accuracy of advertising claims.

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All advertising copy and insertion orders should be sent to the Journal Advertising Department:

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919.552.9118 h 919.549.1561 w
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Ad copy deadlines are normally the 1st of the month, prior to month of publication. The Repeater Journal cannot guarantee publication of any advertising that arrives after deadline unless prior arrangements are made with the Ad Department.

FEBRUARY *ISSUE* -	*January 1*
MAY ISSUE -	*April 1*
AUGUST ISSUE -	*July 1*
NOVEMBER ISSUE -	*October 1*

'Twas the Night Before Christmas,1996

a true story by N8VH and KD4BNQ

'Twas the night
before Christmas
and all through the towns
not a creature was stirring
not even the hounds.

Up at the repeater site
click, click, click,
Someone is working
and it's not St. Nick.

Yesterday someone
had called with a warning.
The new 2-meter
goes up in the morning.

So we gathered our tools
and left in a rush
to re-wire the building
and make everything flush.

Snow was falling
and the wind was mean.
The temperature INSIDE
was just seventeen.

With two heaters blasting
and pain in our toes,
the soft drinks beside us
had already froze.

The vents were covered
so heat wasn't lost.
The inside walls
were covered with frost.

We mounted six lights
on the wall near the top
so when equipment was moved
the bulbs would not pop.

The sockets were all nestled
flush with the wall.
It was beginning to look
like a professional install.

We had been on the mountain
twelve hours, at least.
And had already missed
a Christmas Eve feast.

With ONE more hole
we knew we could do it,
to hide every wire
inside of conduit.

We picked up the drill,
pointed the bit,
pulled on the trigger,
and then "Oh Crap!"

We must have pulled
just one extra amp.
Now it's all dark
and we don't have a lamp.

The heaters went off
and the temperature dropped.
All of our progress
had suddenly stopped.

"The breakers are all on,
but we have no power."
"Let's look in the shed
by our neighbor's tower!"

The bags that once held
the boxes and screws
were taped on our legs
to shield snow from our shoes.

We started our journey
and it took a while.
Only fifty-five yards
but it felt like a mile.

"Can you believe this?"
We said on our walk.
"We go through a lot
just so others can talk."

We finally got there
by the path we had chosen.
Then another surprise.
Their door lock was frozen.

We used our bare hands
to thaw out the lock.
It finally opened after
a half-turn of the clock.

Their propane generator
was trying to fire
but it would have to wait
'til the temperature was higher.

It made a great effort
going whiff, whiff, whiff.
Just not enough speed.
The oil was too stiff.

We grabbed the rip cord
and gave it a yank.
It would not engage.
It never did crank.

We examined their breakers
and none were found thrown.
We then looked for something
else that was blown.

So out to their pole
we decided to roam
where we found a charred
fuse with infinite ohms.

We knew the Sheriff
would be as mad as can be,
after we blew his fuse
at a quarter 'till three.

We looked for a spare.
We looked all around.
We looked everywhere.
There was none to be found.

So off of the mountain
we drove in a spree,
and skidded on ice
and just missed a tree.

We drove to our house,
to continue this story,
and gathered some parts
from our fuse inventory.

We arrived back at the top
near the end of the night,
plugged in the fuses
and on came the light.

All the hard work
was taking its toll.
We were glad when the drill
dropped through that last hole.

We made the connections.
They all passed the test.
We then headed down
for a well deserved rest.

After a night
that was long and tough.
We sat down with our family
to open our stuff.

But then the phone rang
and I asked "What's wrong?"
"What did y'all do?
The 220 is gone!"

"We'll have to postpone
our Christmas tradition.
We have yet another
important HAM mission."

So we headed back up
to inspect that repeater
and arrived at our site
which was now much neater.

The coax had twisted
in the extreme cold
and apparently broke
when the cabinet was rolled.

We replaced a connector
with a new one from stock
and made it back home
around twelve o'clock.

The next crew hauled
the 2-meter to the site
and finished the exchange
late Christmas night.

All in all
a great time was had.
HAM projects are best
when the weather is bad!

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Get the whole story at:
www.shelor.net/dale/
hamradio/xmas96dpk.asp

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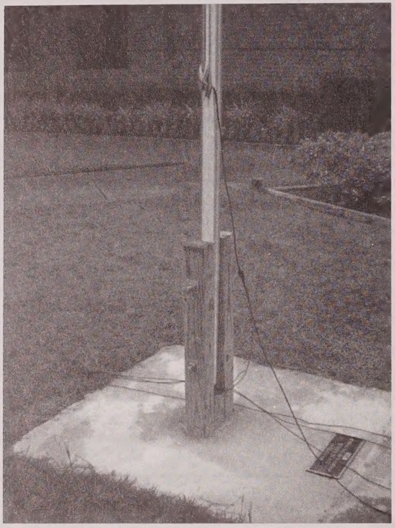
W4BFB

In The Spirit of Field Day

Tom Palmieri K2PJ

The Grand Strand Amateur Radio Club (GSARC) W4GS held it's Field Day 2003 exercise on the grounds of the American Red Cross, Horry County Chapter Offices, Myrtle Beach, SC. As we all know, Field Day is an annual event for the Amateur Radio community. "Field Day" tests our ability to provide communications under simulated emergency conditions. The GSARC used emergency generator power and alternative (solar) power to run its radio equipment.



Tom K2PJ and Gene K4TSU decided to try something different this year – a Flagpole vertical on 40 meters. What better way to demonstrate the adaptability, ingenuity and resourcefulness of Amateur Radio? Sure, ham radio operators use flagpoles, but this was 'spur of the moment', it just happened to 'be there'. And besides, it was Field Day.

The sidewalk leading up to the front entrance of the Red Cross offices is graced by a spun aluminum flagpole approximately 30 feet tall and 4 inches in diameter. The flagpole is supported by two 4"x4" treated wood studs embedded in concrete. Two long bolts hold the flagpole in place and allow it to be lowered when necessary.

The center conductor of a length of RG58 was attached to the cleat on the flagpole. The RG58 shield was attached to four random (>35 ft) length radials. A quick check with an MFJ antenna analyzer proved the antenna would operate across the 40M band without a tuner.

How did it perform? The 40M station ran 100W cw and managed to contact just about every Field Day station it called. If we spent more time on the antenna (radials, attention to the feedpoint, feedline, etc.), it would have surely played even better. We were amazed and impressed at the results just the same.

Once we decided to 'give it a try', it took K2PJ, K4TSU, N4XML and KG4JUT a total of 20 minutes to scrounge the coax and radial wire, and get the antenna on the air.

The antenna and the Amateur Radio ingenuity behind if made the local TV news at 6 and 11 PM, June 28th. N2ZZ (Dr. Jim) and AE4UX (Charlie) were equally impressed during their visit. We understand that K4TSU has his eyes on a metal chimney for Field Day 2004 !

Free FEMA classes on web

Tim Lewallen KD5ING

FEMA has a series of free, self-paced studies on a variety of topics. I plan on taking a few of them but I am starting with class IS-242 "Effective Communication". The class addresses-

- Basic communication skills
- How to communicate in an emergency
- How to identify community-specific communication issues
- Using technology as a communication tool
- Effective oral communication
- How to prepare an oral presentation.

Course web site:
training.fema.gov/EMIWeb/IS/is242.asp

Site for the entire program:
training.fema.gov/EMIWeb/IS/

449 MHz Wind Profiler RADAR licensed to Elizabeth City NC

Frank A. Lynch, W4FAL

The FCC granted on Oct.1, 2003 an experimental license in Elizabeth City, NC for a wind profiler radar operating with the following parameters:

Center Frequency:	449.0 MHz
Emission Designator:	2M00P0N
TX Peak Pwr:	2.5 kW
Peak ERP:	2500 kW
(that's 2.5 million watts)	
Pulse width:	0.4μs-4.0μs
Callsign:	WB9XUR

(No, this is not a ham callsign. Experimental calls can be 2X3 calls beginning with a W or K and having the letter X as the first letter of the suffix.

The experimental license has the following stipulations:

> Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, *the licensee of this authorization will be subject to immediate shut down.*

THE SERA OFFICIAL REPEATER INDEX

REPEATER LISTINGS FOR: GEORGIA ■ KENTUCKY ■ MISSISSIPPI ■ NORTH CAROLINA ■ SOUTH CAROLINA ■ TENNESSEE ■ VIRGINIA ■ WEST VIRGINIA

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SERA will not be responsible for incorrect or omitted listings. The responsibility of correct listings is that of the actual repeater owner or sponsor. SERA makes every effort to keep the index as accurate as possible with information provided. The SERA ***Repeater Journal*** repeater lists contain certain repeaters which are NOT or have not been coordinated by SERA, or are not operating according to recognized frequency utilization plans. SERA does not necessarily condone or recognize such repeaters as being legal or illegal. They are listed in our indexes primarily to keep our readers informed of all repeaters known in the areas served by The SERA.

Some repeater owners or sponsors allow voice as well as other functions on their machine. Operators should check with owners for additional information about what is allowed, and what features are available. Digital Repeaters with normal input/output (pairs) are listed in the regular FM repeater index. Digital systems operating simplex are not coordinated by SERA and are not on our repeater lists. The *codes* column contains the tone or access code for those repeaters which the owner or trustee has given us written permission and asked that we publish them . Access tones are listed for the reader's convenience both in the By-State, and the By-Frequency listings.

Entries with "#" in front of city indicates repeaters added to this index that have not been coordinated through the local SERA state coordinator. Owners may work with their coordinator to get this indicator removed. Repeaters that have been coordinated but may not yet be on the air yet are listed with "PROP" in the codes column. Owners should notify SERA when on the air.

Repeater owners are reminded to contact their local Frequency Coordinator for assistance in coordination, changes in their listings, or any other requirements. All SERA services are FREE. It is very important that the annual SERA repeater datasheet, sent to all known repeater operators, be accurately updated each year and returned to SERA.

SERA RECOMMENDED FM VOICE SIMPLEX

10 Meters:	29.600#						
6 Meters:	52.490	52.525#					
2 Meters:	146.400*	146.415*	146.430*	146.445*	146.460*	146.475*	146.490*
	146.505*	146.520#	146.535	146.550	146.565	146.580	146.595
	147.405*	147.420*	147.435*	147.450*	147.465*	147.480*	147.495*
	147.510	147.525	147.540	147.555	147.570	147.585	
222 MHz	223.400	223.420	223.440	223.460	223.480	223.500#	223.520
	223.540	223.560	223.580	223.600	223.620	223.640	
440 MHz	445.825	445.875	445.900	445.925	445.950	445.975	446.000#
	446.025	446.050	446.075	446.100	446.125	445.150 (Not all listed)	

* Permitted for Voice Simplex use unless operation would cause interference to repeater inputs. Be aware that SERA coordinates some of these frequencies as repeater inputs in some areas.
# - Designated National Simplex Frequencies.

SERA RECOMMENDED DIGITAL SIMPLEX CHANNELS

2 Meters:	144.390#	144.910	144.930	144.950	144.970	144.990	145.010
	145.030	145.050	145.070	145.090	145.510	145.530	145.550
	145.570	145.590	145.610	145.630	145.650	145.670	145.690
	145.710	145.730	145.750	145.770			
222 MHz.	223.660	223.680	223.700	223.720	223.740	223.760	223.780
440 MHz	440.9125	440.9250	440.9375	440.9500	440.9675	440.9750	440.9875
	441.0000	441.0125	441.0375	441.0500	441.0625	441.0750	441.0875
	441.1000	441.1125	441.1375	441.1500	441.1625	441.1750	

Hi Speed Digital Chan. - 222.350 to 222.450 (222.400 Center) - (100 KHz wide)
Hi Speed Digital Chan. - 223.800 to 223.900 (223.850 Center) - (100 KHz wide)

NOTE: Digital operators are reminded to check with their local Digital organizations as to which channels are available for various digital usage in their particular area. Some channels are for exclusive use of LAN or BBS, etc. usage. #144.39 Generally Accepted APRS channel

SERA JOURNAL REPEATER LISTINGS BY STATE - BY CITY

Listings Correct as of October 19, 2003

PLEASE NOTE: CTCSS Tone Frequencies are listed for repeaters only if the repeater sponsors request they be listed. Tone access listing does not indicate a closed repeater.

GEORGIA

10 METERS

CONYERS	AI8H	29.680	-		☺
DALTON	N4BZJ	29.680	-		☺
#MACON	KF4XH	29.620	-	UNCOR	
MONROE	KQ4XL	29.620	-		
VALDOSTA	KB0Y	29.680	-	T141.3	☺
WARNER ROBINS	WR4MG	29.660	-		

6 METERS

ATL/MARIETTA	KD4DKW	53.090	-	T151.4	
ATLANTA	KA5WZY	53.150	-		☺
AUGUSTA	W4WTA	53.030	-		☺
BISKEY MT.	KC4JNN	53.050	-	T100.0	☺
CARTERSVILLE	WB4AEG	53.070	-	T123.0	☺
COCHRAN	W3LAP	53.010	-	PROP	☺
#CONYERS	WB4JEH	51.550	+	UNCOR	☺
CONYERS	WB4JEH	53.550	-	T151.4	☺
CRAWFORD	KD4FVI	53.330	-	T88.5	
#CUMMING	WA4YNZ	51.700	-	UNCOR	
DALTON	N4BZJ	53.130	-		☺
DECATUR	KA4UFM	53.390	-	T	
HIAWASSEE	KC4CBQ	53.270	-	186.2	
IVEY/MACON	K4YC	53.730	-	T88.5	☺
KINGSLAND	KC5BMJ	51.940	-	T82.5	☺
LAKE PARK	KB0Y	53.890	-	T141.3	☺
LAWRENCEVILLE	W4GR	53.110	-	82.5	☺
LULA	WB4HJG	53.890	-	T82.5	☺
#MACON	KF4XH	53.390	-	UNCOR	
#MACON	KR4OL	53.430	-	UNCOR	
MARIETTA	N1KDO	53.210	-	T79.7	☺
MARIETTA	KF4BMG	53.250	-	T79.7	
#PINE LOG MT	WD4OVN	53.450	-	UNCOR	☺
#PINE LOG MT.	K4PLM	53.290	-	UNCOR	
#ROSWELL	WA4YNZ	53.010	-	UNCOR	
WARM SPRINGS	KD4BDB	53.230	-	PROP	
WARNER ROBINS	WR4MG	53.790	-		
WATKINSVILLE	KD4AOZ	53.570	-	T123.0	☺

2 METERS

ADAIRSVILLE	K4NGA	146.685	-		☺
ALBANY	W4MM	146.700	-		☺
ALBANY	W4MM	146.730	-		☺
ALBANY	W4MM	146.820	-		☺
ALLENHURST	KF4ZUR	147.270	+	162.2	
AMERICUS	W4VIR	147.270	+	T141.3	☺
ASHBURN/TIFTON	W4PVW	147.285	+	T141.3	☺
ATHENS	KD4QHB	146.745	-		☺
ATHENS	KD4AOZ	146.955	-	T123.0	☺
ATHENS/CRAWFRD	K4TQU	147.375	+	127.3	☺
ATL/UNION CITY	W4ZT	146.625	-	100.0	☺
ATLANTA	W4IBM	145.290	-	T88.5	☺
ATLANTA	W4DOC	145.350	-	T146.2	☺
ATLANTA	K4LCI	145.430	-		
#ATLANTA	WB4QGR	146.640	-	UNCOR	
ATLANTA	W4DOC	146.820	-	T146.2	☺
ATLANTA	K4CLJ	146.970	-	T	☺
ATLANTA	WA4NNO	147.000	-		
ATLANTA	WB6RTH	147.105	+	107.2	☺
ATLANTA	KA5WZY	147.285	+		☺
ATLANTA/AIRPORT	W4REI	147.030	+		
ATLANTA/BELL	W4PME	145.410	-	100.0	☺
ATLANTA/MARIETTA.	N4NFP	146.655	-	T151.4	
ATLANTA/MARIETTA.	N4NEQ	147.345	+	151.4	
ATLANTA/SWEAT MT	KD4NC	146.730	-		
AUGUSTA	KK4HL	145.110	-		
AUGUSTA	W4DV	145.290	-	T100.0	☺
AUGUSTA	AA4UA	145.370	-		
AUGUSTA	K4KNS	145.410	-		☺
AUGUSTA	W4DV	145.490	-		☺
AUGUSTA	KT4N	146.940	-		
AUGUSTA	K4KNS	146.985	-	100.0	☺
AUGUSTA	N4BMA	147.180	+		
#AUSTELL	K4JPD	147.195	+	UNCOR	
BACONTON	K4TWG	145.150	-	PROP	
BAINBRIDGE	KE4RWR	147.090	+	PROP	
BALDWIN	WD4NHW	147.180	+		☺
BARNESVILLE	W8JI	147.225	+		☺
#BLACK ROCK MT	KE4SNT	147.390	+	UNCOR	
BLAIRSVILLE	KE4RQT	146.955	-	T100.0	☺
BOGART	W4EEE	147.000	+	T	☺
BONAIRE	KD4HMH	145.470	-	T	
BONAIRE	K4EDN	147.015	+	T82.5	☺
BOSTON	W4UCJ	147.195	+		☺
BRUNSWICK	K4TVE	146.730	-		
CALHOUN	K4WOC	146.745	-	T100.0	☺
CARROLLTON	W4FWD	146.640	-	T131.8	☺
CEDARTOWN	W4CMA	147.120	+		☺
CHATSWORTH	N4YYD	145.250	-	T71.9	
CLARKESVILLE	K4HCA	147.120	+		☺
CLAXTON	W4CLA	147.075	+		
CLEVELAND	WB4HIG	146.910	-		☺
COCHRAN	N4MXC	145.110	-	T107.2	
COCHRAN	W3LAP	147.330	+	T77.0	☺
COLBERT	N4ALE	147.300	+	123.0	☺
COLUMBUS	W4FIZ	145.310	-	T123.0	☺
COLUMBUS	W4CVY	146.610	-	T	☺
COLUMBUS	W4CVY	146.880	-		
COMMERCE	KF4ADI	147.225	+	T123.0	
CONYERS	WB4JEH	145.230	-	T151.4	☺
CONYERS	WB4JEH	146.610	-	T151.4	☺
CONYERS	KF4GHF	147.210	+	T162.2	☺
CORDELE	WR4SG	145.230	-	T141.3	☺
CORDELE	KA4WUJ	145.490	-	T103.5	☺
COVINGTON	WA4ASI	146.925	-		
COVINGTON	KF4GHF	147.270	+	T162.2	☺
CUMMING	WB4GQX	147.150	+		☺
DAHLONEGA	N4KHQ	146.835	+	T100.0	☺
DALLAS	W4RPO	146.850	-		
DALLAS	WD4LUQ	146.895	+	T77.0	☺
DALTON	W4DRC	145.230	-		☺
DALTON	N4BZJ	147.135	+	T118.8	☺
DARIEN	WA4EPK	146.685	-		☺
DECATUR	W4BOC	145.450	-		☺
DOERUN	KG4ABK	147.225	+	PROP	
DOUGLAS	KE4ZRT	147.045	+	141.3	☺
DOUGLAS	KE4ZRT	147.165	+	T141.3	☺
DOUGLAS	AD4EQ	147.315	+	T141.3	☺
DOUGLASVILLE	KR4HV	145.110	-	T88.5	☺
DOUGLASVILLE	W4SCR	147.360	+	T88.5	☺
DUBLIN	WA4HZX	147.360	+		☺
EASTMAN	KC4RRO	145.210	-		
EASTMAN	KF4ODQ	145.330	-	T77.0	
EATONTON	KC4YHM	147.090	+	T179.9	☺
ELBERTON	N4UJT	146.625	-		
ELLIJAY/TALONA M	KC4ZGN	146.985	-	T77.0	
EMERSON	AE4JO	147.240	+	T103.5	☺
FAYETTEVILLE	WA4EPK	145.210	-	131.8	
FAYETTEVILLE	K4KZY	146.685	-		
FOLKSTON	KD4GEY	146.790	-		
FORSYTH	W4STJ	147.315	+	88.5	☺
GA TECH	W4AQL	145.150	-	167.9	☺
GAINESVILLE	W4CBA	145.190	-	PROP	☺
GAINESVILLE	W4ABP	146.670	-	T131.8	☺
GRIFFIN/CENAR	K4HYB	145.390	-	T88.5	☺
GRIFFIN/CENAR	K4HYB	146.910	-		☺
HARTWELL	N4VNI	146.895	-	T100.0	☺
HAWKINSVILLE	WR4MG	146.895	-	T107.2	
HINESVILLE	KG4OGC	147.015	+		☺
IRWINTON	WB4NFG	147.240	+	T77.0	
IVEY	K4YC	145.250	-	T	☺
IVEY/MACON	K4YC	145.150	-	77.0	☺
JASPER	KB4IZF	145.370	-	T100.0	☺
JASPER	K4UFO	146.700	-		☺
JASPER	KC4AQS	146.805	+	T100.0	☺

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

GEORGIA REPEATERS CONTINUE

JESUP	WA4EQL	145.190	-		☺
JESUP	WA9RNZ	145.430	-	T118.8	☺
JESUP	N4ZON	146.865	-	T123.0	☺
JESUP	N4PJR	146.925	-	T141.3	☺
JESUP/SCREVEN	N4PJR	147.345	+		
JONESBORO	WA4DIW	145.170	-		☺
JONESBORO	WA4OGE	145.330	-		
KIBBEE	K4HVK	146.820	-	T	☺
KINGSLAND	KC4WWU	147.285	+	T118.8	☺
LAFAYETTE	KB4VAK	147.375	+	T77.0	
LAGRANGE	KD4BWK	146.700	-	T141.3	
LAGRANGE	WB4BXO	147.330	+		
LAKE PARK	WR4SG	147.135	+	T141.3	☺
LAVONIA	K4NVG	146.715	-	T100.0	☺
LAWRENCEVILLE	W4GR	147.075	+	82.5	☺
#LINCOLNTON	KT4N	147.120	+	UNCOR	
LOOKOUT MT	W4GTA	145.350	-	T100.0	☺
LOOKOUT MT.	W4RRG	146.760	-	T67.0	☺
MACON	W4BKM	145.370	-	T88.5	☺
MACON	AA4RI	145.430	-		☺
MACON	WR4DH	146.730	-	T100.0	☺
MACON	K4PDQ	146.805	-	T77.0	☺
MACON	WA4DDI	147.060	+	T	☺
#MACON	KF4XH	147.165	+	UNCOR	
MADISON	WB4DKY	146.865	-	T179.9	☺
MADRAS	N4OME	147.165	+	T131.8	☺
MARIETTA	W4LMA	145.490	-	88.5	☺
MARIETTA	N4NEQ	146.775	-	T151.4	
MARIETTA/ATLANTA	W4BTI	146.880	-	T100.0	☺
MILLEDGEVILLE	WB4DOJ	146.700	-	T67.0	
MILLEDGEVILLE	KE4UWJ	147.135	+	T123.0	☺
MORGANTON	N4NEQ	147.165	+	T151.4	
MOULTRIE	WD4KOW	146.790	-		☺
NASHVILLE	KB4JF	145.310	-	T141.3	
NEWNAN	K4SEX	145.130	-	156.7	
NEWNAN	K4SEX	146.790	-		
OCILLA	KD4MFS	145.350	-		
PEMBROKE	KF4DG	147.105	+		
PEMBROKE	W4CJB	147.390	+		
PERRY	WR4MG	145.290	-	T107.2	
PERRY	WR4MG	146.955	-	107.2	
PINE MT/HAMILTON	WB4ULJ	145.190	-		
QUITMAN	WA4NKL	146.880	-		☺
RICEBORO	KG4OGC	145.470	-		☺
RINGGOLD	W4ABZ	146.715	-	T67.0	
ROME	WB4YSV	147.300	+		
ROME/MT. ALTO	W4VO	146.940	-	88.5	☺
ROSWELL	N4CLA	147.060	+		
SANDERSVILLE	KT4X	145.270	-	T77.0	☺
SAVANNAH	K4NLX	146.700	-	T100	
SAVANNAH	K4SDJ	146.850	-		☺
SAVANNAH	W4HBB	146.880	-		
SAVANNAH	W4HBB	146.970	-		
SAVANNAH	WA4IDS	147.150	+		
SAVANNAH	K4NLX	147.210	+		
SAVANNAH	K4NLX	147.330	+		
SNELLVILLE	KR4NQ	147.255	+	T107.2	☺
SPRINGFIELD	AF4VH	146.745	-	PROP	
ST SIMONS ISLAND	N4XGI	145.330	-	T131.8	☺
STOCKBRIDGE	WA4JDR	145.310	-		☺
STONE MT	W4BOC	146.760	-	T107.2	☺
SUMMERVILLE	W4RLP	147.225	+	100.0	☺
SWAINSBORO	K4VYX	146.790	-		
SWEAT MT/MARIETT	N4CLA	145.470	-		
THOMASTON	W4OHH	147.390	+	131.8	☺
THOMASVILLE	W4UCJ	147.060	+		☺
THOMSON	KC4GSS	146.835	-		☺
TOCCOA	N4MTN	147.330	+	PROP	☺
UNADILLA	WR4MG	146.760	-	T107.2	
VALDOSTA	WR4SG	145.130	-	T141.3	☺
VALDOSTA	KF4BJM	146.760	-	141.3	
VIDALIA	K4HAO	146.625	-		☺
WALESKA/PNLG MT	K4AIS	145.270	-	T100.0	☺
WALESKA/PNLG MTN	K4AIS	147.015	-	T100.0	☺
WARM SPRINGS	KN4FE	146.985	-		
WARNER ROBINS	WA4ORT	146.850	-		
WARNER ROBINS	WB4BDP	147.180	+	107.2	☺
WARNER ROBINS	WR4MG	147.300	+	107.2	
WATKINSVILLE	KD4AOZ	147.045	+	T123.0	☺
WAYCROSS	AE4PO	146.640	-	T141.3	
WAYCROSS	AE4PO	147.255	+	T141.3	☺
WAYNESBORO	K4BR	145.230	-		
WRENS	KB4NA	146.775	-		
WRIGHTSVILLE	WA4RVB	146.940	-		☺
YOUNG HARRIS	K2YRW	147.090	+		☺

220 MHZ

ACWORTH/ATL	N4MTA	224.320	-	T123.0	
ACWORTH/ATL	N4MTA	224.500	-	T123.0	☺
ALPHARETTA	NX9O	224.580	-	100.0	
ALPHARETTA	KC4JNN	224.860	-	T100.0	☺
ATLANTA	W4DOC	224.340	-		☺
ATLANTA	KK4C	224.820	-	T77.0	
#ATLANTA-NE	KC4OVY	224.200	-	UNCOR	☺
ATLANTA/BELL	W4PME	224.620	-	100.0	☺
ATLANTA/MARIETTA	N4NFP	224.120	-	T151.4	
ATLANTA/MARIETTA	N4NEQ	224.440	-	T151.4	
ATLANTA/MARIETTA	K4RFL	224.960	-	T100.0	☺
AUGUSTA	WB4KXO	224.940	-		☺
BISKEY MTN	KC4JNN	224.160	-	T100.0	☺
CEDARTOWN	KC4KLW	224.780	-	T179.9	
CLAYTON	W4UWH	224.720	-	PROP	
CONLEY	N4MNA	224.280	-		☺
#CONYERS	WB4JEH	224.020	-	UNCOR	☺
CUMMING	K4JSR	224.980	-		
DAHLONEGA	N4RBT	224.380	-	T100.0	☺
DALLAS	N4YDX	224.180	-		
DALLAS	N4YEA	224.540	-		☺
DALLAS	W4TIY	224.700	-		☺
DALTON	N4BZJ	224.360	-	T	☺
DALTON	N4BZJ	224.460	-	T118.8	☺
DALTON	N4BZJ	224.680	-		☺
DALTON	N4KVC	224.740	-	T	☺
#DECATUR	W4BOC	224.760	-	UNCOR	☺
EATONTON	K4SWS	224.100	-	PROP	
FT MT/CHATSWTH	N4YYD	224.240	-	T71.9	
GAINESVILLE	W4TL	224.840	-	T203.5	☺
HAWKINSVILLE	WR4MG	224.820	-	PROP	
JASPER	KC4AQS	224.400	-	T100.0	☺
JASPER	W4UWH	224.600	-	100.0	
LOOKOUT MT	W4RRG	224.560	-	T	☺
LOOKOUT MT.	W4RRG	224.640	-		☺
MARIETTA	KE4QFG	224.260	-	T110.9	☺
MARIETTA	W4LMA	224.900	-		☺
PINE LOG MTN	K4AIS	224.520	-		☺
RAY CITY	KB0Y	224.220	-	141.3	☺
SNELLVILLE	W4CSX	224.920	-	T100.0	
VALDOSTA	KB0Y	224.460	-	T141.3	☺
VILLA RICA	KB4TIW	224.300	-	T131.8	
WALESKA	KD4ALC	224.140	-		
WALESKA/PNLG	K4AIS	224.940	-		☺
WARNER ROBINS	WR4MG	224.840	-		
WATKINSVILLE	KD4AOZ	224.420	-	T123.0	☺
YORKVILLE	WD4LUQ	224.880	-	T77.0	☺
YOUNG HARRIS	NP2Y	224.660	-	PROP	

440 MHZ

ACWORTH	KC4YNF	441.800	+	T77.0	☺
ALBANY	W4MM	444.500	+		☺
ALPHARETTA	WB6RTH	442.000	+	107.2	☺
ATHENS	AA4AI	442.950	+	T179.9	☺
ATHENS	WW4GA	443.300	+	T	☺
ATHENS/CRAWFORD	KC4GZX	444.300	+	T127.3	
ATL/MARIETTA	N4NFP	442.800	+	T	
ATL/UNION CITY	W4ZT	442.125	+	T100.0	
ATLANTA	W4CML	442.025	+	T127.3	☺
#ATLANTA	WB6RTH	442.225	+	UNCOR	☺
ATLANTA	N4XQM	442.525	+	T110.9	☺
ATLANTA	KE4PVE	442.675	+	T100.0	☺
ATLANTA	WA4YNZ	442.975	+	T	
ATLANTA	W4CML	443.025	+	T127.3	☺
ATLANTA	KA5WZY	443.600	+	T146.7	☺
ATLANTA	W4CML	443.650	+	PROP	☺
ATLANTA	KD4LXT	443.875	+		
ATLANTA	W4DOC	444.450	+	T146.2	☺
ATLANTA	KD4GPI	444.500	+	T110.9	☺
ATLANTA	W4DOC	444.825	+	T146.2	☺
ATLANTA	WA4NNO	444.925	+		
ATLANTA	WA4YNZ	444.975	+	T	
ATLANTA/BELL	W4ZTL	421.250	+		☺
ATLANTA/BELL	W4PME	444.150	+	T100.0	☺
ATLANTA/GLENRI	WR4CW	444.100	+	PROP	
ATLANTA/MARIETTA	K4RFL	442.875	+	T100.0	☺
ATLANTA/MARIETTA	N4NFP	443.800	+	T151.4	
ATLANTA/MARIETTA	N4NEQ	444.050	+	T151.4	
ATLANTA/MARIETTA	N4NEQ	444.775	+	151.4	
AUGUSTA	KD4BOO	444.900	+		☺
BALDWIN	WD4NHW	442.350	+		☺
BARNESVILLE	N4GWO	443.675	+		
BISKEY MTN	KC4JNN	443.250	+	T100.0	☺
BLAIRSVILLE	KF4SKT	442.200	+		
BLUERIDGE	KD4GRU	442.125	+	146.2	
BOGART	W4EEE	443.475	+	T	☺
BONAIRE	K4EDN	444.625	+	T82.5	☺
BRUNSWICK	KD4CPO	443.425	+		
BRUNSWICK	K4TVE	444.975	+		
BYRON	KF4XH	443.150	+		
BYRON	WB4SBT	444.700	+	T103.5	☺
CALHOUN	K4WOC	443.675	+	T100.0	☺
CANTON	WA4EOC	443.075	+	PROP	
CARROLLTON	W4FWD	444.075	+	T131.8	☺
CARTERSVILLE	K4AIS	443.175	+	T100.0	☺
CEDARTOWN	KD4NTF	443.575	+	T107.2	☺
CHATSWORTH	W4DRC	443.000	+		☺
CLAYTON	W1CP	442.825	+	T162.2	☺
CLERMONT	W4TL	444.950	+	T131.8	☺
COBB COUNTY	WC4RAV	443.450	+	T103.7	
COCHRAN	W3LAP	442.875	+	T77.0	☺
COCHRAN	N4MXC	444.775	+	PROP	
COCHRAN	W3LAP	444.975	+	77.0	☺
COLLEGE PARK	KG4PTO	442.350	+	PROP	
COLUMBUS	WB4ULK	441.975	+	PROP	
COMMERCE	KF4ADI	441.975	+	T123.0	
CONCORD	WB4GWA	443.400	+	118.8	
CONYERS	WB4JEH	442.550	+	T151.4	☺
CONYERS	KB2DZA	443.725	+	T77.0	
CONYERS	WB4JEH	444.550	+	T151.4	☺
CONYERS	KC4ELV	444.750	+	T162.2	☺
CORNELIA	K4JLG	444.275	+	T100.0	☺
COVINGTON	K4GO	443.750	+	T146.2	
COVINGTON	KE4PVE	444.175	+	T100.0	
COVINGTON	WA4ASI	444.800	+	T88.5	
CUMMING	WB4GQX	441.900	+	T141.3	☺
CUMMING	WA4BPY	442.575	+	T79.9	☺
CUMMING	W4CBA	444.625	+	T123.0	☺
#CUMMING	WA4YNZ	444.975	+	UNCOR	
DACULA	KK4IN	443.550	+		
DAHLONEGA	N4KHQ	443.100	+	100	☺
DAHLONEGA	N4BBQ	444.900	+	T100.0	☺
DALLAS	W4CSX	441.925	+	T162.2	
DALLAS	W4TIY	443.700	+		☺
DALLAS	WD4LUQ	444.700	+	T77.0	☺
DALTON	N4BZJ	442.175	+	T118.8	☺
DALTON	N4BZJ	444.500	+	T118.8	☺
DALTON	N4BZJ	444.850	+		☺
DANIELSVILLE	KE4FHN	442.650	+	T	
DECATUR	N3APR	442.200	+		
DECATUR	KA4UFM	443.950	+	T110.9	
DECATUR	W4BOC	444.250	+		☺
DOUGLAS	KE4ZRT	443.000	+	T141.3	☺
DOUGLASVILLE	W4SCR	444.575	+	T88.5	☺
DUBLIN	KD4FOC	442.600	+	T77.0	
EATONTON	K4SWS	442.425	+	PROP	
EATONTON	KC4YHM	442.925	+		☺
ELLIJAY	KC4ZGN	442.700	+	T77.0	☺
ETOWAH VALLEY	AE4JO	443.425	+	T103.5	☺
FAYETTEVILLE	W4PSZ	444.600	+	T77.0	
FLOWERY BRANCH	K4RHJ	443.900	+	T131.8	☺
FOLKSTON	KD4GEY	444.475	+		
FT. MT/CHATSWTH	N4YYD	443.350	+	T71.9	
GAINESVILLE	W4ABP	442.625	+	T131.8	☺
#GAINESVILLE	WA4DB	444.200	+	UNCOR	
GAINESVILLE	W4CBA	444.350	+	PROP	☺
GRAY	K4MDS	443.625	+		
GRAY	K4DDH	444.275	+	T100.0	
GREENSBORO	N4YXL	444.850	+	PROP	
GRIFFIN	KF4QLF	441.850	+		☺
GRIFFIN	KE4WLP	443.550	+		
HAMILTON	WB4ULJ	444.400	+		
HAPEVILLE	KC4ENL	442.825	+	T167.9	
HELEN	K4PE	444.425	+	T127.3	
HIAWASSEE	KC4CBQ	444.675	+	186.2	
HIGH PT/LOOKT MT	KB4VAK	443.450	+	T77.0	
HINESVILLE	KG4OGC	444.850	+	PROP	☺
HOGANSVILLE	KC4YNY	444.300	+	PROP	
IRWINTON	WB4NFG	444.925	+	T77.0	
IVEY	K4YC	443.200	+	T88.5	☺
IVEY	K4YC	444.650	+	T	☺
JASPER	N3DAB	442.750	+	T141.3	☺
JASPER	KC4AQS	443.375	+	T100.0	☺
JASPER	KB4MDE	443.425	+		
JASPER	KF4OYP	443.625	+	T100.0	
JASPER	KB4IZF	444.375	+	T103.5	☺
JERSEY	WA4SSJ	443.575	+	T103.5	☺
JESUP	N4PJR	444.925	+	T141.3	☺
JONESBORO	WA4DIW	443.225	+		
KENNESAW	WK4E	442.425	+	PROP	
KINGSLAND	KC5BMJ	444.625	+	T118.8	☺
KINGSTON	AF4PX	444.125	+	T	
KNOXVILLE	N4PQR	443.525	+	PROP	
LAKEMONT	N4ZRF	444.750	+	T	
LAVONIA	K4NVG	442.475	+	T203.5	☺
LAWRENCEVILLE	WB4HJG	442.850	+	T82.5	☺
LAWRENCEVILLE	KF4RLZ	442.900	+	T123.0	
LAWRENCEVILLE	WB4QDX	444.000	+	T127.3	☺
LAWRENCEVILLE	W4CML	444.025	+	T127.3	☺
LITHIA SPRINGS	WB4RL	442.925	+	PROP	
LOOKOUT MT	W4RRG	442.650	+	T100.0	☺
LOOKOUT MT.	W4RRG	442.475	+	T67.0	☺
LULA	WB4HJG	444.400	+	T71.9	☺
MABLETON	W4JLG	442.325	+	T	☺
MACON	AF4UL	442.000	+	PROP	
MACON	K4DDH	442.275	+	T100.0	☺
MACON	W4MAZ	442.700	+	PROP	
MACON	WX4EMA	443.075	+	T156.7	
MADRAS	K4HAC	442.250	+	T141.3	☺
MARIETTA	N1KDO	442.050	+	T107.2	☺
MARIETTA	KE4QFG	442.375	+	T	☺
MARIETTA	WA4OKJ	442.600	+	T100.0	
MARIETTA	N4MTA	443.500	+		☺
MARIETTA	KF4BMG	444.325	+	T79.7	
MARIETTA/ATL	KE4QFG	442.725	+	T	☺
MARLOW	W1MED	442.475	+	PROP	
MCDONOUGH	KE4UAS	444.875	+	T82.5	☺
MONROE	KQ4XL	443.925	+	T123.0	
MOULTRIE	W1BPP	444.625	+	T123.0	☺
NEWNAN	K4NRC	441.875	+	T156.7	
NEWNAN	KE4PVE	444.350	+	PROP	
NORCROSS	K4HUM	442.100	+	T100.0	☺
PEACHTREE CITY	W4PSZ	442.500	+	T77.0	
PEMBROKE	AF4MI	441.800	+	T123.0	
PENDERGRASS	KE4PVE	444.125	+	PROP	
PERRY	WR4MG	444.950	+		
PINE LOG MT	KD4APP	443.200	+	T103.5	
QUITMAN	WA4NKL	444.600	+	T127.3	☺

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

GEORGIA REPEATERS CONTINUE

REX	KB4NPO	443.975	+	PROP	
RINGGOLD	KW4KW	442.300	+	PROP	
RINGGOLD	W4BAB	443.925	+		
ROCKMART	KC4KLW	443.275	+	T179.9	
ROME	KA4MLK	441.825	+	T100.0	☺
ROME	KC4KLW	443.525	+	T179.9	
ROSWELL	W8BLA	442.075	+	T	
#ROSWELL	WA4YNZ	442.975	+	UNCOR	
ROSWELL/BELL	W4PME	443.150	+	100.0	☺
SANDY SPRINGS	KE4OKD	441.950	+	T156.7	
SAVANNAH	K4NLX	421.250	+		
SAVANNAH	WA4VHP	427.250	+	T	☺
SAVANNAH	K4NLX	442.700	+		
#SAVANNAH	WD4AFY	444.000	+	UNCOR	
SMYRNA	N4IBW	444.650	+		
SNELLVILLE	W4CML	442.450	+	T	
SNELLVILLE	NE1H	443.050	+	T	
SNELLVILLE	W4GR	444.525	+	82.5	☺
ST SIMONS ISLAND	N4XGI	442.950	+	T131.8	☺
STATHAM	WW4T	442.300	+	T	☺
STOCKBRIDGE	KG4PUW	443.125	+	PROP	
STOCKBRIDGE	N4JMD	443.325	+	T	
STONE MTN	KD4HPD	443.825	+	T123.0	☺
SUGAR HILL	N4YF	443.775	+	T82.5	☺
SUGAR VALLEY	K4WOC	441.850	+	PROP	
SUMMERVILLE	KS4QM	444.725	+	T123.0	☺
SWEAT MT/MARIETT	N4CLA	444.475	+		
TIFTON	KE4RJI	444.875	+	T	☺
TYRONE/PTC	KN4YZ	444.675	+	T77.0	
VALDOSTA	WR4SG	444.350	+	T141.3	☺
VALDOSTA	KF4BJM	444.700	+	T141.3	
VIDALIA	KE4PMP	442.500	+	T88.5	☺
#WALESKA	KD4DXR	441.350	+	UNCOR	
#WALESKA	K4PLM	443.850	+	UNCOR	
WARM SPRINGS	N4UER	442.400	+		
WARNER ROBINS	WR4MG	442.900	+		
WATKINSVILLE	KD4AOZ	444.725	+	T123.0	☺
WAYCROSS	AE4PO	444.025	+	T141.3	☺
WOODSTOCK	KE4SJO	444.225	+		

900 MHZ

ATLANTA	KG4LMT	927.500	-	223.0	
DAHLONEGA	N8EKA	927.4875	-	PROP	☺
DALLAS	W3PS	927.525	-	PROP	
LAWRENCEVILLE	N8EKA	927.6875	-	141.3	☺
#SAVANNAH	WA4VHP	923.000	-	UNCOR	☺
VALDOSTA	KB0Y	927.4875	-	T141.3	☺

1270 MHZ

ATLANTA/BELL	KB4KIN	1292.000	-		☺
ATLANTA/MARIETTA	N4NEQ	427.250	+		
DALTON ATV	N4BZJ	421.250	+		☺

KENTUCKY

10 METERS

BUCKHORN LAKE	K4XYZ	29.620	-	103.5	☺
INGLE	KA4UHL	29.680	-	T146.2	☺
LOUISVILLE	KK4CZ	29.640	-		☺

6 METERS

ASHLAND	KC4QK	53.010	-	T107.2	☺
BUCKHORN LAKE	K4XYZ	53.730	-	PROP	☺
DORTON	WR4AMS	53.350	-	PROP	
HAZARD	K4TDO	53.850	-		
HIGHLAND HEIGHTS	AD4CC	53.330	-	123.0	
HIGHLAND HEIGHTS	W4YWH	53.750	-	PROP	☺
LAGRANGE	WB4WSB	53.950	-	PROP	
LAWRENCEBURG	N4EQT	53.130	-	T107.2	
LEXINGTON	KE4LGL	53.570	-		
LONDON	KE4ZJT	53.910	-	T100.0	☺
LOUISVILLE	KF4UAQ	53.290	-		
LOUISVILLE	N7BBW	53.430	-	T151.4	☺
LOUISVILLE	WB4LBR	52.025	+		
NANCY	KA4UHL	53.270	-	T100.0	☺
NICHOLASVILLE	N4ALG	53.090	-	103.5	☺
#STANTON	WD4KNE	53.810	-	UNCOR	
WAYNESBURG	KE4RKF	53.390	-	T100.0	☺
WILLIAMSBURG	KB4PTJ	53.070	-	T100.0	

PLEASE NOTE

The Repeater Journal lists subtones used on repeaters ONLY if they are requested to be listed by the sponsor or owner. The listing of a subtone on any repeater does not in any way indicate it being a "Closed" repeater. Generally in most cases, the tones are used to eliminate noise problems and are listed at the owners request for users convenience.

2 METERS

ALLEN	K4ICN	147.300	+	T123.0	☺
#ARTEMUS	N4INT	147.390	+	UNCOR	
ASHLAND	KG4DVE	146.940	-		☺
ASHLAND	KC4QK	147.240	+	T107.2	☺
ASHLAND	WA8KWH	147.330	+		
BARBOURVILLE	KF4CME	147.135	+	100.0	
BARDSTWN/NELSN	WB4GGH	145.470	-	151.4	☺
BEREA	KF4OFT	146.715	-	100.0	☺
BLACK MTN	KM4M	147.210	+	T103.5	☺
BOWLING GREEN	K4LOL	147.060	+	156.7	☺
BOWLING GREEN	W4WSM	147.165	+		☺
BOWLING GREEN	KA4CFW	147.330	+		☺
BOWLING GREEN-SO	W4WSM	146.655	-		☺
BROOKS	KY4KY	146.700	-	T151.4	☺
BUCKHORN LAKE	K4XYZ	147.375	+	T103.5	☺
CADIZ	KT4SH	147.195	+	103.5	☺
CANE VALLEY	WA4UXJ	146.640	-		☺
CORBIN	WD4KWV	146.610	-		☺
COVINGTON	WR8CRA	147.390	+	T123.0	☺
CRESTWOOD	KF4TOL	147.390	+	T151.4	
DANVILLE	WD4DZC	146.655	-		☺
DAVID	KC4KZT	145.310	-	T	☺
DAWSON SPRINGS	KF4CWK	147.090	+	T103.5	
#DIXON	N4IOX	147.255	+	UNCOR	
DORTON	KC4KZT	146.895	+	T141.3	☺
DRAKESBORO	KF4DKJ	146.820	-	T	
ELIZABETHTOWN	W4BEJ	146.980	-		
ELKTON	AC4RS	145.430	-	PROP	☺
FARMINGTON	W4GZ	147.240	+	T91.5	☺
FLEMINGSBURG	KF4BRO	146.955	-	T107.2	☺
FLORENCE	K4JBV	146.895	-	100.0	
FRANKFORT	N4EQT	147.105	+	T107.2	
FRANKFORT	KC4AI	147.240	+	T100.0	
FRANKLIN	KE4SZK	147.135	+	PROP	
GEORGETOWN	KF4NTQ	146.685	-	107.2	☺
GLASGOW	KY4X	146.940	-	114.8	
GRAYSON	KD4DZE	146.700	-	107.2	☺
GREENVILLE	WA4TTC	146.745	-		
GRETHEL	KJ4VF	147.045	+	T100.0	
GUTHRIE	KA4NNE	146.805	-	100.0	☺
HALLS GAP	W8PRH	145.170	-		☺
HARLAN	WA4ZAC	147.105	+		☺
HAZARD	KF4SJO	146.670	-		☺
HAZARD	W8PRH	146.805	-		☺
HENDERSON	W4KVK	145.490	-		
#HENDERSON	K4DPP	146.970	-	UNCOR	
HIGHLAND HEIGHTS	W4YWH	146.790	-	123.0	☺
HIGHLAND HTS.	K4CO	147.255	+	T123.0	☺
#HODGENVILLE	W4LJM	147.315	+	UNCOR	☺
HOPKINSVILLE	KF4FO	146.710	-		
HOPKINSVILLE	KD4ULE	147.030	+	T103.5	☺
HUEYSVILLE	K4NLT	145.470	-	T79.7	☺
HYDEN	KF4TLT	147.240	+	186.2	☺
IRVINE	W4CMR	146.820	-	192.8	☺
IRVINE	AD4RU	147.015	+		
JACKSON	WA4MXO	145.410	-		☺
#JONATHAN CREEK	N4SEI	146.985	-	UNCOR	
LAWRENCEBURG	N4EQT	145.390	-	T107.2	
LEBANON	WD4JZH	147.345	+	T151.4	
LEBANON JCT.	KD4YGK	147.150	+	79.7	☺
LEESBURG	KC4UPE	145.110	-	T192.8	☺
LEXINGTN/GRGTWN	W8PRH	145.210	-		☺
LEXINGTON	AD4YJ	145.250	-	110.9	
LEXINGTON	WB4CWF	145.490	-		☺
LEXINGTON	AC4AO	146.730	-		☺
LEXINGTON	K4KJQ	146.760	-		☺
LEXINGTON	WA4HBM	147.165	+		☺
LEXINGTON	KJ4VF	147.195	+		
LITCHFIELD	KY4SP	147.225	+	179.9	
LONDON	KE4ZJT	147.180	+	T151.4	☺
LONDON	KC4ZFH	147.285	+	T	
LOUISA	N8QCW	147.390	+	127.3	☺
LOUISVILLE	KG4CCW	145.150	-	141.3	
LOUISVILLE	W8PRH	145.230	-		☺
LOUISVILLE	AC2DC	145.290	-	T151.4	
LOUISVILLE	KK4CZ	145.410	-	151.4	☺
LOUISVILLE	W4PF	146.880	-		
LOUISVILLE	W4PJZ	147.030	+	151.4	☺
LOUISVILLE	N4MRM	147.070	+	T151.4	☺
#LOUISVILLE	KA4KMT	147.120	+	UNCOR	
LOUISVILLE	W4CN	147.180	+	88.5	☺
LOUISVILLE	WB4EJK	147.270	+	151.4	
LOUISVILLE	KQ9Z	147.360	+		
LOUISVILLE AREA	N4UL	145.130	-	T151.4	
LYNN GROVE	KA4BLZ	146.895	-	T210.7	
MADISONVILLE	KC4FRA	146.610	-		☺
MARION	KA4FGA	147.285	+	PROP	
MAYSVILLE	KF4BRO	145.470	-	T107.2	☺
MIDDLESBORO	KA4WZX	146.775	-		
MILLARD	KD4RTR	146.745	-	T141.3	☺
#MONTECELLO	WB9SHH	146.395	+	UNCOR	☺
MONTICELLO	KY4JW	145.150	-	100.0	☺
MOREHEAD	KJ4VF	145.130	-	PROP	
MOREHEAD	K4GFY	146.910	-	T123.0	
MT. STERLING	W4JTL	147.330	+	T103.5	
MURRAY	K4MSU	146.940	-	T91.5	☺
NANCY	KA4UHL	146.790	-	T100.0	☺
#NEBO	AA4NI	146.730	-	UNCOR	
OWENSBORO	N4WJS	146.685	-	110.9	☺
OWENSBORO	AD4MU	146.865	-		
OWENSBORO	K4HY	147.210	+	110.9	☺
OWINGSVILLE	N4TLP	147.075	+		
PADUCAH	K4CUW	146.655	-	T	☺
PADUCAH	K4CUW	146.760	-		
PADUCAH	W4NJA	147.060	+	103.5	☺
PADUCAH	KD4DVI	147.120	+	PROP	
PAINTSVILLE	N4KJU	145.270	-	T	☺
PARIS	KE4OOS	147.045	+	PROP	
PHELPS	N4MWA	147.090	+		☺
PIKEVILLE	AD4BI	145.150	-	107.2	☺
PIKEVILLE	KM4IV	146.850	-		
PRESTONSBURG	WB4UBY	147.165	+		☺
PRINCETON	W4KBL	145.230	-	103.5	
PRINCETON	W4KBL	146.670	-		
#PROVIDENCE	N4IUI	147.330	+	UNCOR	
RADCLIFF	AI4HB	145.350	-	173.8	
RADCLIFF	W4BEJ	146.925	-		
RICHMOND	KE4YVD	145.370	-	T192.8	☺
RICHMOND	KG4AEU	146.865	-	192.8	
ROCKFIELD	KG4FEJ	145.450	-	136.5	
ROCKPORT	KD4BOH	145.270	-	77.0	☺
SALEM	KC4VXR	147.315	+		
SALVISA	KF4AWA	146.835	-	T192.8	☺
SALYERSVILLE	KB4SQI	145.190	-	T127.3	☺
SANDY HOOK	KF4WMM	147.135	+	T107.2	
SHELBYVILLE	KE4LR	147.000	+		☺
SO. PORTSMOUTH	KC8FKP	145.390	-	136.5	
SOMERSET	KA4UHL	146.880	-	77.0	☺
SPRINGFIELD	WA4SJH	147.300	+		
ST. CHARLES	KE4AIE	147.270	+		☺
STANTON	N4VOS	145.290	-		
STANTON	W8PRH	146.970	-		☺
TOMPKINSVILLE	KJ4OG	146.775	-		☺
VANCEBURG	AE4SK	146.775	-		☺
VERSAILLES	KF4INN	145.330	-		
WADDY	KS4TO	146.910	-	T107.2	
WALTON	K4CO	147.375	+	123.0	☺
WEBSTER	K4ULW	146.625	-	T151.4	
WEST LIBERTY	KG4GQC	145.230	-	107.2	
WILLIAMSBURG	KG4M	147.000	+		
WINCHESTER	WB4ASZ	147.120	+		☺
WINCHESTER	KJ4VF	147.195	+	PROP	

220 MHZ

ASHLAND	KC4QK	223.940	-		☺
BUCKHORN LAKE	K4XYZ	224.460	-	PROP	☺
DORTON	WR4AMS	224.520	-		☺
GARRETT	K4NLT	224.260	-	PROP	☺
HAZARD	WR4AMS	224.820	-		
IRVINE	AD4RU	224.940	-		
LANCASTER	KD4RXF	224.560	-		
LAWRENCEBURG	N4EQT	224.900	-	T107.2	
LEXINGTON	AC4AO	224.420	-		☺
LONDON	WR4AMS	224.980	-		
LOUISVILLE	KA4MKT	224.300	-		
LYNCH	K4TDO	224.320	-	PROP	
META	WR4AMS	224.380	-	PROP	
MIDDLESBORO	WM4MD	224.120	-	T82.5	
MOREHEAD	KJ4VF	224.760	-	PROP	
NANCY	KA4UHL	224.100	-	T100.0	☺
PIKEVILLE	WB4F	224.580	-		
PIKEVILLE	KD4DAR	224.620	-		☺
PRESTONSBURG	WR4AMS	224.720	-	PROP	
SHEPHERDSVILLE	N4FND	224.500	-	T151.4	☺
SOMERSET	N4AI	224.300	-		☺
SOMERSET	N4AI	224.880	-		☺
STANVILLE	KJ4VF	224.680	-	PROP	
VERSAILLES	AD4CR	224.220	-		

440 MHZ

ALLEN	N4IWZ	444.775	+	T123.0	☺
#ASHLAND	KC8ERN	444.750	+	UNCOR	
ASHLAND	KC4QK	444.975	+	T107.2	☺
BARDSTOWN	KT4GB	443.000	+		☺
BEATTYVILLE	KC4UPE	444.825	+	T192.8	☺
BEAVERLICK	KC4COV	443.475	+	T131.8	
BOWLING GREEN	W4HTB	426.250	+		☺
BOWLING GREEN	W4WSM	444.100	+		☺
BOWLING GREEN	WB4JM	444.700	+	T136.5	☺
BROOKS	KY4KY	443.700	+	151.4	☺
BRUSHY FORK	KF4WMM	444.600	+	88.5	
BUCKHORN LAKE	K4XYZ	443.400	+	103.5	☺
BURLINGTON	KD4EVB	443.525	+	T107.2	☺
CANE VALLEY	W4LJM	443.950	+	T	☺
CORBIN	KF4IFC	444.275	+	79.7	☺
CORBIN	WB4IVB	444.900	+	T100.0	
COVINGTON	KC4COV	444.175	+	T131.8	
COX'S CREEK	AE4NU	443.450	+	T151.4	☺
DAVID	KC4KZT	443.900	+	T167.9	☺
DAWSON SPRINGS	KU4MJ	444.275	+		
DORTON	KD4RTR	442.150	+	167.9	☺
DORTON	KJ4VF	443.250	+		
DRY RIDGE	KD4EVB	444.425	+	T107.2	☺
ELIZABETHTOWN	W4BEJ	421.250	+		
ELIZABETHTOWN	W4BEJ	444.800	+		
ELKHORN CITY	KD4RTR	444.300	+	167.9	☺

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

KENTUCKY REPEATERS CONTINUE

FALMOUTH	KD4EVB	443.825	+	T107.2	☺
FLATWOODS	KZ4G	443.450	+	PROP	
FLORENCE	KC4COV	443.175	+	T131.8	
FORT WRIGHT	KY4DJ	441.850	+	T107.2	
FORT WRIGHT	KY4JD	442.525	+	T123.0	☺
FOSTER	KU4ML	443.125	+		
FRANKFORT	K4NGQ	442.175	+	T67.0	
FRANKFORT	WA4CMO	443.325	+		
FRANKLIN	KD4TAH	443.225	+		
GARRETT	KF4JJD	442.400	+	79.7	☺
GEORGETOWN	KF4NTQ	443.625	+		
GLASGOW	KY4X	444.925	+		
GLASGOW/CVCTY	KF4DC	444.250	+		
GRAEFENBURG	N4HZX	443.550	+		☺
GRETHEL	KJ4VF	444.525	+		
HARLAN	KD4CDX	442.625	+	PROP	
HAWESVILLE	KB4QFL	444.625	+		
HAZARD	K4TDO	443.975	+	103.5	
HENDERSON	KY4K	444.725	+	T203.5	
HIGHLAND HEIGHTS	W4YWH	444.900	+	123.0	☺
HOPKINSVILLE	KE4AIF	444.750	+	T103.5	☺
HORSECAVE	KF4QZN	444.850	+	PROP	
HUDSON	KY4SP	444.900	+	179.9	
INDEPENDENCE	KB8SBN	444.075	+	T110.9	
IRVINE	W4CMR	442.900	+		☺
IRVINE	AD4RU	444.000	+		
LATONIA	AA4XV	442.400	+	T	
LAWRENCEBURG	N4EQT	443.925	+	T107.2	
LEWISPORT	K4DC	444.550	+		☺
#LEXINGTON	KY4ATV	923.250	-	UNCOR	☺
LEXINGTON	KD4ADJ	442.050	+		
LEXINGTON	KE4OOL	443.025	+	T123.0	
LEXINGTON	KB8QLC	444.125	+	88.5	
LEXINGTON	KC4DUU	444.550	+		☺
LEXINGTON	KE4ISR	444.725	+	T	
LEXINGTON	N4DUE	444.950	+		☺
LOUISVILLE	N4ORL	442.000	+		
LOUISVILLE	KB4RYM	442.500	+		
LOUISVILLE	WD4ELX	442.550	+		
LOUISVILLE	KB4YJ	442.725	+	151.4	
LOUISVILLE	WD9EQC	443.500	+		
LOUISVILLE	N4KWT	443.975	+	PROP	
LOUISVILLE	N4UL	444.100	+	173.8	
LOUISVILLE	KG4JNM	444.300	+	156.7	
LOUISVILLE	N4NMC	444.600	+	T151.4	
LOUISVILLE AREA	N4RBL	442.100	+	T	
LOUISVILLE AREA	KD4CLR	442.450	+	T151.4	☺
LOUISVILLE SW	K4ULW	443.350	+		
MADISONVILLE	KC4FIE	442.425	+		☺
MADISONVILLE	AE4LW	442.575	+		T
MADISONVILLE	KC4FIE	442.775	+		☺
MADISONVILLE	KC4FIE	444.600	+		☺
MAMMOTH CAVE	KF4QZN	444.475	+		T
MANCHESTER	KD4GMH	444.500	+		P
MARION	KR4PF	444.200	+		T
MAYSVILLE	KF4BRO	443.500	+		T
META	WB4UBY	443.500	+		☺
MIDDLESBORO	WM4MD	442.325	+		T
MIDDLESBORO	KD4PBC	443.150	+		P
MIDDLESBORO	WB4IVB	444.150	+		T
MILLARD	KD4RTR	443.425	+		☺
MONTICELLO	WB9SHH	444.750	+		☺
MOREHEAD	K4GFY	442.500	+		T
MOREHEAD	KJ4VF	443.250	+		P
MORGANTOWN	KF4QZN	444.425	+		T
MT STERLING	KD4ADJ	442.600	+		
MURRAY	K4MSU	443.800	+		T
NANCY	KA4UHL	443.600	+		T
NEBO	AA4NI	444.850	+		
NICHOLASVILLE	KC4UPE	444.775	+		T
NICHOLASVILLE	WB4CWF	444.975	+		
OLIVE HILL	KO4LI	444.925	+		
OWENSBORO	N4WJS	443.100	+		T
OWENSBORO	N4WJS	443.650	+		1
PADUCAH	KD4DVI	443.000	+		17
PAINTSVILLE	N4KJU	441.525	+		12
PHELPS	N4MVY	444.575	+		☺
PIKEVILLE	KD4RTR	444.200	+		☺
PIKEVILLE	KD4DAR	444.375	+		☺
PIKEVILLE	AD4BI	444.475	+		☺
PRESTONSBURG	K4AVY	443.825	+		12
RICHMOND	KE4ISW	444.625	+		19
RINEYVILLE	KF4RBD	444.225	+		P
ROBINSON CREEK	KC4VYX	444.675	+		☺
ROCKPORT	KD4BOH	442.675	+		77
ROCKPORT	KD4BOH	444.075	+		T
RUSSELLVILLE	KD4TAH	442.350	+		P
SALEM	KC4VXR	444.825	+		T
SALVISA	KF4AWA	444.675	+		T
SALVISA	KC4UPE	444.875	+		T
SALYERSVILLE	KE4NLL	444.050	+		T
SHELBYVILLE	KE4YRE	442.375	+		
SHEPHERDSVILLE	AC4VV	444.400	+		T
SIMPSONVILLE	KO4OT	444.450	+		T
SPRINGFIELD	WA4SJH	444.600	+		
STANTON	N4VOS	442.075	+		
UNION	AD4CC	441.800	+		P
VERSAILLES	KF4INN	443.775	+		
WADDY	KS4TO	443.225	+		
WALTON	K4CO	444.350	+		
WAYNESBURG	AG4TY	442.975	+		
WEBSTER	KY4SP	441.525	+		
WHITESBURG	KK4WH	443.750	+		
WILLIAMSBURG	KB4PTJ	444.050	+		
WITHAMSVILLE	KC4COV	444.400	+		

900 MHZ

LEXINGTON	KA4KMG	927.725	-	PROP	

MISSISSIPPI

10 METERS

BAY SAINT LOUIS	KB5MPW	29.640	-	T136.5	

6 METERS

BAY SAINT LOUIS	KB5MPW	53.650	-	T136.5	
ELLISVILLE	N5EKR	53.010	-	T	
JACKSON	W5PFC	53.470	-	PROP	
LAUREL	KC5PIA	53.450	-		☺
NETTLETON	AB5MU	53.050	-	192.8	

2 METERS

ABBEVILLE	WB5VYH	145.470	-	T107.2	
ABERDEEN	WB5USN	147.270	+		☺
ACKERMAN	NO5N	147.120	+		
AMORY	KB5DWX	146.940	-	T192.8	☺
AMORY	KB5DSN	147.090	+		
BAY ST. LOUIS	WB4FUR	146.700	-		
BILOXI	KC5IF	146.730	-		
BILOXI	K5TYP	146.790	-		
BOONEVILLE	K5YD	145.190	-	110.9	☺
BOONEVILLE	KI5WI	147.150	+		
BUDE	K5JMD	146.850	-	T103.5	
BYHALIA	N4DRL	145.350	-		☺
CHATAWA	WB5GOJ	145.310	-		
CLEVELAND	KD5YTB	146.775	-	T107.2	
COLLINS	N5LRQ	146.985	-	T136.5	☺
COLUMBIA	N5LJC	147.285	+	PROP	
COLUMBUS	KC5ULN	146.625	-		☺
COLUMBUS	KC5ULN	147.000	+		☺
CORINTH	???	146.925	-	T107.2	
CORINTH	K5UFH	147.000	-		
CORINTH	KB5TGA	147.285	+		☺
ELLISVILLE	N5EKR	146.955	-	T	
ELLISVILLE	N5DWU	146.865	+	T136.5	☺
ELLISVILLE	N5DWU	146.895	+	T136.5	☺
FLORENCE	KD5AXY	145.110	-	T	☺
FOREST	KC5QHP	147.390	+	T100.0	☺
#FRENCH CAMP	W5BJT	147.225	+	UNCOR	
FULTON	WX5P	145.450	-		☺
GLOSTER	KX5E	145.430	-	T136.5	
GREENVILLE	KG5SF	147.345	+		
GREENWOOD	KA5TQY	146.715	-		
GRENADA	W5LV	146.700	-		☺
GULFPORT	KA5VFU	147.375	+		
HATTIESBURG	W5CJR	145.190	-	T136.5	
HATTIESBURG	K5IJX	145.370	-	136.5	
HATTIESBURG	K5PN	146.775	-	T136.5	
HATTIESBURG	KD5MIS	147.315	+	T136.5	☺
HATTIESBURG	W5CJR	147.360	+		
HERNANDO	K5VV	146.910	-		
INDIANOLA	N5LRL	147.180	+		
ISOLA	KC5OB	146.955	-		
IUKA	WB5MFK	146.850	-		
JACKSON	KB5KGE	145.390	-		
JACKSON	W5AXQ	146.760	-		☺
JACKSON	K5QNE	146.880	-	T100.0	☺
JACKSON	KA5SBK	146.940	-	100.0	☺
JACKSON	W5IQ	147.000	+	T	☺
JACKSON	NC5Y	147.075	+	T	
KILN	K5DMC	145.330	-		
KOSCIUSKO	W5LWC	146.850	-		
LAUREL	W5LAR	146.610	-		☺
LAUREL	WV5D	147.030	-	T	
LAUREL	KC5RC	147.255	+		
LOUISVILLE	KC5QGC	147.360	+		
LUCEDALE	WA5JZL	146.910	-		
MADISON	K5XU	146.640	-		☺
MAGEE	K5HYE	146.820	-	100.0	☺
MAGEE	KA5LNY	147.300	+		☺
MCCOMB	K5JMD	146.940	-	T	
MENDENHALL	KB5IKR	145.210	-	T100.0	
MERIDIAN	KC5ZZH	146.655	-		☺
MERIDIAN	W5FQ	146.700	-		☺
MERIDIAN	KI5FW	146.970	-	100.0	☺
MONTICELLO	N5JHK	147.015	+		
MOOREVILLE	WB5NAY	146.640	-		
MORTON	KB5LCL	147.045	+	T141.3	
NATCHEZ	W5KHB	146.685	-	100.0	
NATCHEZ	K5OCM	146.910	-	91.5	
NATCHEZ	K5SVC	147.360	+	100.0	☺
#NEW ALBANY	KC5VZI	145.230	-	UNCOR	
NEW ALBANY	W5UBG	146.670	-		
#NEW ALBANY	KC5VZI	146.745	-	UNCOR	☺
NEW HEBRON	N5MRS	147.090	+	T	
OCEAN SPRINGS	W5LDD	147.030	+		☺
PASCAGOULA	KE5SJ	146.880	-		
PASCAGOULA	N5PH	146.970	-	T	
PEARL/RANKIN CO	KF5IZ	147.150	+	T88.5	
PELAHATCHIE	W5PPB	147.240	+	T77.0	☺
PHILADELPHIA	N5EPP	147.330	+		
PICAYUNE	KE5LT	145.150	-		☺
PONTOTOC	WB5NAY	147.380	+		
PORT GIBSON	KE5WO	146.625	-		
PURVIS	KB5ZCX	146.670	-		
RAYMOND	W5JWX	145.170	-	T77.0	
RICHTON	N5OCF	147.060	+	T	
SENATOBIA	KB5DMT	146.985	-	T107.2	
SHARON	W5PPB	145.450	-	T77.0	☺
SILVER CREEK	KC5YUX	147.195	+	T136.5	
SOUTHAVEN	N5PYQ	145.370	-	T107.2	
STARKVILLE	KD5GVU	146.730	-	210.7	☺
STARKVILLE	KF5C	146.805	-	192.8	
#SUMNER	WB5FXH	147.090	+	UNCOR	
TUPELO	N5VGK	145.490	-		
TUPELO	N5ELS	147.240	+		
UNION	N5SPJ	147.210	+	T100.0	
UTICA	N5ZMZ	145.350	-		
UTICA	KC5TGT	146.730	-	T77.0	
UTICA	N5ZMZ	147.345	+		
VANCLEAVE	W5WA	145.110	-	123.0	☺
#VANCLEAVE	KE5TL	147.000	-	UNCOR	
VICKSBURG	WJ5L	145.290	-		☺
#VICKSBURG	K5IMT	146.805	-	UNCOR	
VICKSBURG	K5ZRO	147.270	+	T100.0	☺
VOSSBURG	KB5UIX	147.135	+	136.5	
WALLS	N5NBG	145.270	-	T162.2	
WATER VALLEY	N5DXM	147.000	-		
WAYNESBORO	W5SAR	147.105	+		☺
WAYNESBORO	N5DWU	147.315	+		☺
WEST POINT	KC5LIO	147.180	+		☺
WIGGINS	KB5DZJ	145.270	-	T136.5	☺
WINONA	N5EYM	146.970	-	110.9	

220 MHZ

BYHALIA	N4DRL	224.500	-		☺
VICKSBURG	WB5OWY	224.780	-		
WARSAW	N4DRL	224.880	-		☺

440 MHZ

ABERDEEN	KD5AHI	444.450	+		☺
AMORY	KB5DSN	444.825	+		
BYHALIA	N4DRL	444.300	+		☺
CLERMONT HARBR	WD5BJT	444.150	+	T77.0	
CLINTON	KG5YV	444.000	+	T100.0	☺
ELLISVILLE	N5DWU	442.200	+	T167.9	☺
ELLISVILLE	N5DWU	442.250	+	T136.5	☺
GAUTIER	KA5NOJ	911.250	-		☺
GAUTIER	KA5NOJ	426.250	+		☺
GAUTIER	KC5LCW	443.450	+	123.0	☺
GLOSTER	N5ZNS	443.825	+		
GREENVILLE	N5PS	444.675	+	100.0	
GRENADA	AD5IT	444.700	+	T107.2	
HATTIESBURG	K5PN	443.700	+	T136.5	
HAZLEHURST	N5ZDF	443.950	+	T100.0	
HEIDELBERG	KC5RC	444.300	+	T100.0	
HICKORY FLAT	W4ZCD	444.725	+	T179.9	
INDIANOLA	AB5DU	444.850	+	136.5	
JACKSON	KB5LCL	444.450	+	T141.3	
JACKSON	KB5CO	444.600	+	T100.0	☺
JACKSON	NC5Y	444.700	+		
JACKSON	KB5CO	444.800	+		
JACKSON, EAST	AA5RZ	443.625	+		
LAUREL	W5NRU	443.650	+	T100.0	☺
MCCOMB	N5HTQ	444.875	+	T100.0	
MERIDIAN	KB5BRZ	444.100	+	131.8	
MERIDIAN	W5LRG	444.500	+	107.2	☺
NATCHEZ	N5IAT	443.800	+		
NETTLETON	AB5MU	444.625	+	192.8	
NEW ALBANY	WB5YCR	444.150	+		
NEW HEBRON	N5NNI	444.525	+	T	
O'REILLY	N5PS	444.975	+	PROP	
PEARL	KB5HAV	444.375	+	T88.5	
PETAL	W5CJR	443.350	+	T	
PHILADELPHIA	WB5YGI	444.950	+		
PICAYUNE	KE5LT	443.725	+	T179.9	☺
PINOLA	KC5LXF	444.850	+		
PORT GIBSON	KC5CLM	444.575	+	T141.3	☺
RICHTON	N5OCF	444.625	+		
RIDGELAND	N5WDG	443.700	+	T77.0	
SOUTHAVEN	NU5O	443.575	+	77.0	☺
SOUTHAVEN	N5PYQ	444.925	+	T107.2	
STARKVILLE	KD5GVU	444.750	+		☺
STENNIS SPC CEN	WB4FUR	444.650	+		
TUPELO	N5VGK	444.950	+	T192.8	
VICKSBURG	WB5TTE	444.925	+		
VOSSBURG	N5LRQ	442.725	+	T167.9	☺
WALLS	N5NBG	444.650	+		
WAYNESBORO	W5SAR	443.500	+		☺
WAYNESBORO	W5SAR	443.550	+		☺
WEST POINT	N5WXD	443.450	+		☺
WIGGINS	KB5DZJ	443.300	+	167.9	☺

SYMBOLS: ☺ = Full Member SERA   T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated   PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

NORTH CAROLINA

10 METERS

HIGH POINT	KE4QOX	29.640	-	T103.5	☺
NEWPORT	K4GRW	29.660	-	PROP	☺
ROCKY MOUNT	N4JEH	29.660	-		☺
THOMASVILLE	WW4DC	29.680	-	88.5	☺
WILKESBORO	KC4XE	29.620	-		☺
ZEBULON	WB4IUY	29.620	-		

6 METERS

AIR BELLOWS GAP	WA4PXV	53.750	-		
ASHEVILLE	WD4BQW	53.270	-		☺
BOONE	WA4NC	53.790	-	PROP	☺
CHAPEL HILL	W4UNC	53.450	-	T107.2	☺
CLINTON	W4TLP	53.330	-		☺
DURHAM	W4BAD	53.750	-		
EFLAND	WA1YYN	53.410	-	T107.2	☺
#FAYETTEVILLE	W4EBM	53.810	-	UNCOR	☺
GASTONIA	KC4YOT	53.110	-		
HENDERSONVILLE	W4FOT	53.130	-	T100.0	☺
KVILLE/HIPOINT	KF4QDS	53.590	-	T103.5	
LUMBERTON	KD4BGD	53.110	-		☺
MONROE	W4ZO	53.370	-	T100.0	☺
MT MITCHELL	AB4JJ	53.630	-	T100.0	☺
MT. AIRY	N4DAJ	53.970	-	T100.0	☺
MT.AIRY/FANCY GP	KD4FWS	53.070	-	T100.0	
PITTSBORO	KD4JFN	53.230	-	T107.2	☺
RALEIGH	K4ITL	53.030	-		☺
RALEIGH	W4BAD	53.190	-		
REELSBORO	KF4IXW	53.090	-	T162.2	☺
ROBBINSVILLE	KD4YWB	53.710	-	PROP	
ROCKY MOUNT	N4JEH	53.050	-		☺
SAURATOWN MT	N4QLX	53.210	-		
SOPHIA/RANDLEMAN	WR4BEG	53.350	-		☺
SPRUCE PINE	WA4PXV	53.050	-	T151.4	
TARBORO	K4SER	53.110	-		☺
THOMASVILLE	KE4QOX	53.010	-	T88.5	☺
THOMASVILLE	WW4DC	53.170	-	88.5	☺
THOMASVILLE	WW4DC	52.525	+	T88.5	☺
WEST JEFFERSON	AB4JJ	53.310	-	T100.0	☺
WEST JEFFERSON	AB4JJ	53.390	-	T100.0	☺
WILLIAMSTON	K4SER	53.310	-		☺
WILMINGTON	AD4DN	53.430	-	T88.5	☺
YOUNGSVILLE	KD4MYE	53.370	-	T	☺

2 METERS

AHOSKIE	WB4YNF	145.130	-		☺
AHOSKIE	WA4ZGQ	146.910	-	T131.8	☺
ALBEMARLE	K4OGB	146.985	-	T100.0	☺
ANDRWS/ROBNSVL	K4AIH	147.045	-	T151.4	☺
ANDSN MT/DENVER	K4CCR	145.170	-	88.5	☺
ASHEBORO	K4ITL	145.270	-	T82.5	☺
ASHEVILLE	WB4PLA	146.835	-		☺
ASHVL/MT PISGAH	WA4BVW	146.760	-		☺
ASHVL/SPIVEY MT	W4MOE	146.910	-	91.5	☺
BAKERSVILLE	KC4WPM	145.310	-		☺
BENSON	KD4BJD	146.970	-		☺
BETHEL	KD4EAD	147.375	+	T151.4	
BEULAVILLE	N4VBH	145.230	-		
BOONE/RICH MTN	WA4J	147.360	+	T103.5	☺
BREVARD	K4HXZ	147.135	+		☺
BURGAW	K4CTY	146.940	-		☺
BURLINGTON	K4FHB	146.670	-		☺
BURNSVILLE	KD4WAR	146.955	-		
BURNSVILLE	KD4WAR	147.375	+		
BUTNER	N4NCK	145.370	-		☺
BUTNER	WA4IZG	146.940	-	T156.7	
BUXTON	K4USB	146.625	-	131.8	☺
CANTON	W4DJB	146.805	+		☺
CARTHAGE	KG4BOS	147.240	+		☺
CHAPEL HILL	W4UNC	145.230	-	T107.2	☺
CHAPEL HILL	K4ITL	147.135	+	T82.5	☺
CHARLOTTE	W4BFB	145.230	-		☺
CHARLOTTE	W4BFB	145.290	-		☺
CHARLOTTE	WA4AOS	145.350	-		☺
CHARLOTTE	W4BFB	146.940	-		☺
CHARLOTTE	W4CQ	147.060	-		☺
CHARLOTTE	W4CQ	147.270	+		☺
CHERRY MTN	KG4JIA	147.240	+	94.8	☺
CHINA GROVE	N4XO	145.410	-	136.5	☺
CLAREMONT	WB4SRV	147.225	+	T162.2	
CLAYTON	WB4IUY	147.390	+	T88.5	
CLINTON	W4TLP	146.790	-		☺
COINJOCK	WN3X	145.290	-	131.8	
COLUMBIA	KB4TOH	146.835	-	T131.8	☺
CONCORD/KANNAP.	K4CEB	146.655	-		☺
DOBSON	AD4T	146.925	-	T100.0	☺
DUNN	N4CID	146.700	-		☺
DURHAM	WR4AGC	145.450	-		☺
DURHAM	K4JPE	146.985	-	T156.7	
DURHAM	WD4LDB	147.360	+		
EDEN/STONEVILLE	WA4QBG	147.390	+		
EFLAND	WA1YYN	147.180	+	T156.7	☺
ELIZABETH CITY	KC4QLP	145.250	-	PROP	
ELIZABETH CITY	WA4VTX	146.655	-	131.8	☺
ELM CITY	K2IMO	145.150	-	T88.5	☺
EMERALD ISLE	KI4RK	145.330	-	PROP	☺
FARMVILLE	K4ROK	145.270	-	T131.8	☺
FAYETTEVILLE	WA4FLR	147.330	+		☺
FAYVLLE/CFARS	K4MN	146.910	-	100	☺
FOREST CITY	K4OI	146.670	-	PROP	
FRANKLIN	NT4K	145.490	-		
FRANKLIN	W4GHZ	147.240	+	T151.4	☺
GASTONIA	WD4LCF	145.450	-	T	
GASTONIA/CRWDR	K4GNC	146.805	-		☺
GASTONIA/SPCR MT	N4GAS	147.120	+		☺
GIBSONVILLE	WB4IKY	145.490	-	T107.2	☺
GOLDSBORO	KI4RK	145.330	-	100.0	☺
GOLDSBORO	K4CYP	146.850	-	T	☺
GRAHAM	K4GWH	147.375	+	T114.8	☺
GREENSBORO	W4GSO	145.150	-	100.0	☺
GREENSBORO	W4GG	145.250	-	T88.5	☺
GREENSBORO	K4GWH	146.760	-	T156.7	☺
GREENSBORO	KG4BTN	147.030	+	T131.8	
GREENSBORO	W4BUZ	147.210	+		
GREENVILLE	WD4JPQ	145.350	-	T131.8	
GREENVL/ESTN NC	W4GDF	147.090	+		☺
GRIFTON	W4NBR	146.685	-	88.5	☺
HATTERAS ISLAND	K4OBX	145.150	-	T131.8	☺
HAW RIVER	KD4JFN	146.715	-	T107.2	☺
HENDERSONVILLE	WB4YAO	146.640	-	T91.5	☺
HENDERSONVILLE	WA4KNI	147.105	+		☺
HENDSVL/BERWLW	WA4KNI	145.270	-		☺
HENDSVL/PENIC	WA4KNI	147.255	+		☺
HICKORY	KF4LUC	145.490	-	PROP	
HICKORY/BRT. MT	WA4DSZ	146.850	-		
HIGH PEAK MTN	K4OLC	145.210	-	94.8	
HIGH POINT	NC4AR	145.290	-	T88.5	☺
HIGH POINT	W4UA	147.165	+		☺
HILLSBOROUGH	WR4AGC	147.225	+		☺
HOLDEN BEACH	W4ZU	146.775	-	T100.0	☺
#HOPE MILLS	W4IDR	146.835	+	UNCOR	
JACKSONVILLE	KA4SQN	145.190	-		
JACKSONVILLE	WD4FVO	147.000	-		☺
JEFFERSON	W4YSB	147.300	+	T103.5	☺
KANNAPOLIS	N4JEX	147.300	+	T136.5	☺
KILL DEVIL HILLS	W4PCN	145.110	-	T131.8	
KINSTON	W4OIX	145.470	-		☺
LAURINBURG	KI4RR	146.625	-		☺
#LENOIR	N4NIN	147.195	+	UNCOR	
LENOIR/HIBRITN	KN4K	147.330	+	T141.3	☺
LEVEL CROSS	K4ITL	147.255	+	T82.5	☺
LEXINGTON	N4LEX	145.310	-	T88.5	☺
LEXINGTON	W4PAR	146.910	-	T107.2	☺
LILLINGTON	K4ITL	147.105	+	T82.5	☺
LINCOLNTON	NC4LC	147.015	+	141.3	☺
LOCUST	WA4CHZ	147.390	+	T100.0	☺
#LUMBERTON	W4LBT	145.150	-	UNCOR	☺
LUMBERTON	W4NHV	147.045	+		☺
LUMBERTON	KD4PBK	147.165	+	T88.5	☺
LUMBERTON	W4PET	147.360	+		☺
MACO	KB4BR	147.060	+	T	☺
MADISON	WA4IXW	147.345	+	T103.5	☺
MARION	WD4PVE	146.985	-	118.8	
MILLERS CREEK	N4GGN	146.715	-	94.8	☺
MONROE/UCARS	NC4UC	145.390	-	T94.8	☺
MORGANTON	KC4QPR	146.745	-	94.8	☺
MORGANTON	K4VLY	147.150	+		
MOUNT AIRY	N4VRD	145.330	-	T100.0	☺
MT MITCHELL	WA4BVW	145.190	-		☺
MT. AIRY	N4VL	145.130	-	T103.5	☺
MURPHY/STALCUP	N4WCO	146.865	+	T151.4	☺
N. WILKESBORO	W4HF	145.370	-	T94.8	☺
NASHVILLE	WA4WPD	145.290	-	T107.2	☺
NEW BERN	W4EWN	146.610	-	T100.0	☺
NEWPORT	K4GRW	145.450	-		☺
NEWTON	K4CCR	147.075	+	T88.5	☺
ORIENTAL	W4SLH	147.210	+	T151.4	☺
OXFORD	N4NCK	145.170	-		☺
PITTSBORO	KD4JFN	147.075	+	T146.2	☺
RAEFORD	KU4W	145.430	-	100.0	☺
RALEIGH	W4RNC	145.130	-	T88.5	☺
RALEIGH	K4GWH	145.190	-	T156.7	☺
RALEIGH	WB4TQD	145.390	-	T82.5	☺
RALEIGH	W4BWC	145.490	-	T82.5	☺
RALEIGH	WB4TOP	146.610	-	T131.8	☺
RALEIGH	W4DW	146.640	-		☺
RALEIGH	W4BWC	146.730	-	T82.5	☺
RALEIGH	KD4RAA	146.775	-	T88.5	☺
RALEIGH	WB4TQD	146.880	-		☺
RALEIGH	W4BAD	147.015	+	T88.5	☺
RALEIGH	KO4CW	147.195	+	T88.5	
RALEIGH/BENSON	AK4H	147.270	+		☺
RED SPRINGS	W4MZP	147.300	+		☺
REIDSVILLE	N4IV	146.850	-	T103.5	☺
ROANOKE RAPIDS	N4WFU	146.745	-	T131.8	
ROANOKE RAPIDS	KB4DJT	147.030	+		
ROANOKE RAPIDS	K4ITL	147.150	+	T82.5	☺
ROBBINSVILLE	N4GSM	145.110	-	T151.4	☺
ROCKINGHAM	K4RNC	146.955	-		☺
ROCKY MOUNT	W4DCG	146.805	-	T118.8	☺
ROCKY MOUNT	WN4Z	147.120	+	T131.8	☺
ROLESVILLE	KF4HFQ	147.315	+	T88.5	
ROSEBORO	K4ITL	145.310	-		☺
SALISBURY	W4EXU	146.730	-	T94.8	☺
SALISBURY	KG4WAD	146.775	-	T94.8	
SAURATOWN MT	W4NC	145.470	-	T100.0	☺
SAURATOWN MT	KG4ASL	146.790	-	T107.2	☺
SAURATOWN MT	K4MPJ	147.315	+	T100.0	☺
SHALLOTTE	K4PPD	145.370	-		
SHALLOTTE	K4PPD	147.315	+	T118.8	
SHALLOTTE	K4PPD	147.390	+		
SHELBY	W4NYR	146.880	-		
SHELBY	W4NYR	147.345	+		
SPARTA/GREEN MT	K4QFQ	145.430	-		☺
STAR/BISCOE	KI4DH	147.090	+	100.0	☺
STATESVILLE	W4SNC	146.685	-		☺
SWANSBORO	KB2XI	146.760	-		☺
SYLVA	KF4DTL	147.345	+	151.4	
THOMASVILLE	KF4QDS	146.610	-	T123.0	
THOMASVILLE	KB4BPV	146.835	+	T88.5	
THOMASVILLE	WW4DC	147.000	+	T88.5	☺
TRENTON	WB4TQD	145.210	-		☺
#TROUTMAN	KC4MJC	147.045	+	UNCOR	☺
TRYON	KF4JVI	145.330	-		☺
TRYON	W4RCW	147.285	+		☺
WADESBORO	W4USH	146.835	-		☺
WANCHESE	W4ACY	146.940	-	T131.8	
WASHINGTON	WA4TEP	147.345	+		☺
WAXHAW	WA4ZRS	146.865	+	T94.8	☺
WAYNESVILLE	N4SM	147.270	+		
WAYNESVILLE	N4DTR	147.390	+		
WHITEVILLE	W4NTQ	147.210	+		☺
WILKESBORO	WB4PZA	146.820	-	94.8	☺
WILLIAMSTON	K4SER	145.410	-	T131.8	☺
WILMINGTON	N4JDW	145.170	-	T88.5	
WILMINGTON	AD4DN	146.670	-	T88.5	☺
WILMINGTON	N4ILM	146.730	-		☺
WILMINGTON	K4GMP	146.820	-	T88.5	☺
WILMINGTON	WA4US	147.135	+	T67.0	☺
WILMINGTON	AC4RC	147.180	+	T88.5	☺
WILSON	WB4THL	146.760	-	131.8	☺
WILSON	WB4IUY	147.300	+	PROP	
WINSTON-SALEM	W4NC	146.640	-	T100.0	☺
YADKINVILLE	N4YSB	147.015	-		☺
YOUNGSVILLE	KD4MYE	145.110	-	88.5	☺

220 MHZ

ANDRWS/ROBINSVL	K4AIH	224.880	-	T	☺
ASHEVILLE	KD4CJG	224.520	-	T91.5	
ASHEVILLE	WB4PLA	224.600	-		☺
ASHVL/MT PISGAH	WA4BVW	224.260	-		☺
BANNER ELK	WA4NC	224.840	-	PROP	☺
BARIUM SPRINGS	WA4WRS	224.300	-		☺
BIG KNB/MARS HIL	KE4RQL	224.660	-	100.0	
#BIG PHOENIX MTN.	KC4KUL	224.600	-	UNCOR	
BURNSVILLE	KD4WAR	224.740	-		
CANTON	N4DWU	224.820	-		☺
CARY	W4JYV	224.880	-	PROP	
CHAPEL HILL	K4ITL	224.120	-	PROP	☺
CHARLOTTE	W4BFB	224.400	-		☺
CHERRY MTN	KG4JIA	224.640	-	PROP	☺
CHERRYVILLE	KC4ZTJ	224.960	-		
CLEMMONS	WB9SZL	224.700	-	T100.0	☺
DUNCAN	KM4TC	224.700	-	T88.5	
EDEN	N4IV	224.780	-	T103.5	☺
EFLAND	WA1YYN	224.660	-	T107.2	☺
FAYETTEVILLE	WB4YZF	224.560	-		
GASTONIA	KC4IRA	224.620	-	T127.3	☺
GREENSBORO	WB4GUG	224.440	-	T107.2	
GREENSBORO	N4QVI	224.960	-		
GRIFTON	WA4DAN	224.840	-		☺
GRIMESLAND	WB4PAC	224.360	-		
HAW RIVER	KD4JFN	224.620	-	T107.2	☺
HENDERSONVILLE	N4UQS	224.960	-		
HENDSVL/BERWLW	WA4KNI	224.240	-		☺
HILLSBOROUGH	WR4AGC	224.260	-		☺
JACKSONVILLE	KA4SQN	224.320	-		
KERNERSVILLE	KF4IXK	224.820	-	T107.2	
KVILLE/HIPOINT	KE4QOX	224.240	-	T107.2	☺
LENOIR/HIBRITN	KN4K	224.160	-		☺
LOCUST	KC4FWC	224.480	-		
MARSHALL	WA4TG	224.360	-		
MT MITCHELL	WA4BVW	224.540	-		☺
OXFORD	N4NCK	224.740	-		☺
PLYMOUTH	KB7BTU	224.760	-	T131.8	
RALEIGH	K4ITL	224.160	-		☺
RALEIGH	W4RNC	224.640	-		☺
ROBBINSVILLE	N4GSM	223.940	-		☺
ROCKY MOUNT	NF4C	224.220	-		☺
ROCKY MOUNT	KR4AA	224.580	-		☺
SALISBURY	W4EXU	224.760	-		☺
SHELBY	W4NYR	224.060	-		
SHELBY	KC4ZTJ	224.460	-		
SOPHIS/RANDLEMAN	WR4BEG	224.140	-	T	☺
THOMASVILLE	WW4DC	224.340	-	T88.5	☺
TRENTON	WA4DAN	224.720	-		☺
WILMINGTON	WA4US	224.200	-	T	☺
WILMINGTON	AD4DN	224.500	-	T88.5	☺
WILMINGTON	WB4KPF	224.680	-		

440 MHZ

AHOSKIE	WB4YNF	444.200	+	T	☺
AIR BELLOWS GAP	WA4PXV	443.575	+		
ANDRWS/ROBINSVL	WD4NWV	442.600	+	T151.4	☺
ANDRWS/ROBINSVL	K4AIH	443.650	+	T	☺
ANDSN MT/DENVER	K4CCR	444.075	+	88.5	☺

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

N. CAROLINA REPEATERS CONTINUE

APEX	KD4PBS	442.075	+	T114.8	☺
ASHEBORO	KE4QAP	444.975	+		
ASHEVILLE	WA4TOG	442.550	+		☺
ASHEVILLE	KD4GEU	442.650	+		
ASHEVILLE	KF4TLA	443.275	+	T103.5	☺
AUBURN	N4ZCM	442.275	+		
BENSON	K4JDR	444.550	+	PROP	☺
BLADENBORO	KC4FWC	444.325	+	T77.0	
BLADENBORO	KC4FWC	444.725	+	77.0	
BOONE/RICH MT	KC4FWC	444.575	+	T77.0	
BREVARD	AG4AZ	442.850	+		☺
BRYSON CITY	N0SU	443.400	+	T151.4	☺
BUIES CREEK	NC4BJ	444.275	+	PROP	☺
BURGAW	N4JDW	444.075	+	PROP	
BURNSVILLE	KD4WAR	443.650	+		
CANTON	KE4UIU	443.475	+	T156.7	
CARY	K4JDR	444.775	+	T100.0	☺
CASTALIA	N4JEH	444.975	+	T107.2	☺
CHAPEL HILL	W4UNC	442.150	+	T131.8	☺
CHAPEL HILL	W4UNC	443.475	+	T131.8	☺
CHARLOTTE	W4PPN	421.250	+		
CHARLOTTE	N4IBM	442.650	+	88.5	☺
CHARLOTTE	KD4OWV	443.950	+		
CHARLOTTE	K4KAY	444.350	+	T118.8	
CHARLOTTE	W4CQ	444.450	+		☺
CHARLOTTE	W4BFB	444.600	+	T100.0	☺
CHARLOTTE	W4WBT	444.675	+		
CHARLOTTE	W4CQ	444.850	+		☺
CHARLOTTE	WA1WXL	444.950	+	T136.5	☺
CHERRY MTN	KG4JIA	442.500	+	94.8	☺
CHINA GROVE	N4JEX	443.250	+	T136.5	☺
CLAREMONT	WB4SRV	443.775	+	T118.8	
CLAYTON	K4JDR	444.150	+	T100.0	☺
COLUMBIA	KB4TOH	443.300	+	131.8	☺
COLUMBUS	K4JLA	442.075	+	T103.5	☺
CONCORD	N2QJI	442.525	+	PROP	☺
CRAB CREEK TWP	KB4PQA	443.125	+		☺
CROWDER'S MT	KD4FRP	443.675	+		
DALLAS CHLT	KC4YOZ	443.850	+	T100.0	☺
DURHAM	WR4AGC	444.100	+		☺
DURHAM	W4BAD	444.575	+	T88.5	
DURHAM	KB4WGA	444.925	+	T100.0	☺
DURHAM TV HILL	KJ4SO	421.250	+		
EFLAND	WA1YYN	442.050	+	T107.2	☺
ELIZABETH CITY	WA4VTX	444.300	+	131.8	☺
ELM CITY	K2IMO	442.325	+	PROP	☺
FAYETTEVILLE	K4MN	444.400	+	100HZ	☺
FOREST CITY	AI4M	443.300	+	T114.8	☺
FOUNTAIN	N4HAJ	444.425	+	PROP	
FRANKLIN	N4DTR	444.375	+	T131.8	
GASTONIA	KC4YOT	442.700	+	PROP	
GASTONIA	KG4LWG	442.775	+	T123.0	
GASTONIA	NC4GC	444.750	+		☺
GASTONIA/CRWDR	KC4ZTI	443.750	+		
GASTONIA/CRWDR	AG4EI	444.150	+	T	☺
GASTONIA/SPCR MT	N4GAS	444.550	+		☺
GIBSONVILLE	WB4IKY	443.025	+	T107.2	☺
GIBSONVILLE	WB4IKY	444.350	+	T107.2	☺
GOLDSBORO	KI4RK	443.000	+	T100.0	☺
GRAHAM	K4GWH	443.725	+	T156.7	☺
GRANTSBORO	KR4LO	444.350	+		☺
GREENSBORO	KO4AT	421.250	+		☺
GREENSBORO	KG4BTN	441.975	+	PROP	
GREENSBORO	W4GSO	442.875	+	T88.5	☺
GREENSBORO	KG4BTN	443.650	+	88.5	☺
GREENSBORO	K4GWH	444.225	+	T146.2	☺
GREENSBORO	KG4BTN	444.475	+	107.2	☺
GREENSBORO	KF4DWV	444.950	+	PROP	
GREENVILLE	WB4PMQ	444.800	+	T131.8	☺
HATTERAS ISLAND	K4OBX	444.925	+	T131.8	☺
HAW RIVER	KD4JFN	443.775	+	T107.2	☺
HENDERSON	KG4IWI	442.125	+	T88.5	☺
HENDERSON	KB4WGA	444.375	+	T100.0	☺
HENDERSONVILLE	WA4TOG	442.450	+		☺
HENDSVL/BERWLW	WA4KNI	444.250	+		☺
HICKORY	WA4PXV	442.375	+		
HICKORY	K4JEQ	444.000	+		
HICKORY	KF4LUC	444.800	+	T94.8	☺
HIGH POINT	W4UA	443.900	+		☺
HIGH POINT	KD4JFN	444.025	+	T107.2	☺
HILLSBOROUGH	WA1YYN	443.950	+	PROP	☺
HILLSBOROUGH	WR4AGC	444.450	+	T100.0	☺
HOLLY SPRINGS	KF4AUF	444.325	+	T100.0	
HUNTERSVILLE	W8EMX	443.225	+	PROP	
#JACKSONVILLE	KE4JDP	444.675	+	UNCOR	
KANNAPOLIS	N4JEX	443.350	+	T136.5	☺
KERNERSVILLE	KF4DAR	442.975	+	T107.2	
KERNERSVILLE	KF4IXK	443.325	+	T131.8	
#KING/SAURATOWN	KE4QEA	444.200	+	UNCOR	☺
KINSTON	N4HAJ	442.000	+	PROP	
KINSTON	N4HAJ	444.575	+	T88.5	
KVILLE/H POINT	KE4QOX	443.700	+	T103.5	☺
LAKE GASTON	KF5TU	442.350	+	T100.HZ	☺
LENOIR/CAJAH MT	N4EUX	443.525	+		
LEXINGTON	KO0NTZ	442.275	+	T146.2	☺
LEXINGTON	K4AE	442.425	+	T107.2	☺
LEXINGTON	K4CH	442.925	+	T107.2	☺
LEXINGTON	W4PAR	444.500	+	T107.2	☺
LILLINGTON	W4FBC	444.175	+	PROP	
LINCOLNTON	WA4YGD	442.350	+		☺
LINVILLE	KC4UBR	442.175	+	T136.5	
LOCUST	WA4LBT	443.700	+		
LOUISBURG	N4EWS	444.250	+	88.5	
LUMBERTON	WB4DVN	444.625	+		
LUMBERTON	KD4BGD	444.700	+	T114.8	☺
MAYODAN	WA4WGY	443.975	+		
MCLEANSVILLE	WB4GUG	444.125	+	T	
MIDDLESEX	NE4J	444.650	+	T179.9	
MONROE	W4ZO	444.300	+	T100.0	☺
MONROE	NC4UC	444.425	+	T94.8	☺
MORAVIAN FALLS	KA2NAX	442.675	+	PROP	
MORG/WALKER TOP	KC4QPR	442.300	+	94.8	☺
MORGANTON	KC4QZL	443.800	+	T	
MOUNT AIRY	N4XRY	444.925	+		
MT AIRY/FSH PK	KF4UY	444.825	+	T100.0	☺
MT MITCHELL	N4DWU	443.600	+	114.8	☺
NASHVILLE	N4JEH	443.700	+	T107.2	☺
NEW BERN	W4EWN	444.900	+	T100.0	☺
NEWEL	WT4IX	442.125	+	PROP	☺
NEWPORT	KD4RAA	444.825	+	T100.0	☺
NEWPORT CCARS	W4YMI	444.975	+		☺
NEWTON	KE4KIV	442.625	+		
OLD FORT	KR4EX	444.775	+		
OXFORD	NO4EL	444.600	+		
PINEY KNOB	KC4KPW	443.875	+	T103.5	
PITTSBORO	K1BUD	442.550	+	T	☺
PITTSBORO	KD4JFN	444.750	+	T146.2	☺
POLKVILLE	KC4ZTJ	444.975	+		
RALEIGH	N4LMR	442.450	+		
RALEIGH	W4MLU	442.575	+	T	☺
RALEIGH	W4ATC	442.675	+	100.0	☺
RALEIGH	WA4NNA	443.125	+		☺
RALEIGH	N4ZCM	443.225	+	T	
RALEIGH	W1IFL	443.375	+	T	
RALEIGH	W4RNC	444.525	+	T82.5	☺
RALEIGH	KD4RAA	444.675	+	T100.0	☺
RALEIGH	K4GWH	444.825	+	T146.2	☺
RALEIGH	W4BAD	444.850	+	T100.0	
RALEIGH	KD4RAA	444.875	+	T100.0	☺
REIDSVILLE	K4YEC	444.800	+	T107.2	
RES. TRIANGLE PK	WA1YYN	443.425	+	T156.7	☺
RES. TRIANGLE PK	W4EUS	443.625	+		
ROANOKE RAPIDS	KA4BQM	444.550	+	T192.8	
#ROCKINGHAM	KC4FWC	443.825	+	UNCOR	
ROCKY MOUNT	N4JEH	444.700	+	T107.2	☺
ROCKY MOUNT	WN4Z	444.850	+	T131.8	☺
ROLESVILLE	KF4HFQ	444.950	+	T88.5	
ROUGEMNT/RED MT	WA4WTX	443.275	+	100.0	☺
ROXBORO	KE4GYN	442.175	+	T156.7	☺
SALISBURY	W4HG	443.150	+	T136.5	
SALISBURY	KJ4HF	444.650	+	T88.5	☺
SAURATOWN MT	KE4QOX	443.100	+	T88.5	☺
SAURATOWN MTN	W1WBT	443.050	+	T136.5	☺
SCOTLAND NECK	WA4TCC	444.075	+	PROP	
SELMA	KI4RK	444.000	+		☺
#SHELBY	W4NYR	427.250	+	UNCOR	
SHELBY	W4NYR	444.325	+		
SOPHIA/RANDLEMAN	WR4BEG	443.075	+		☺
SOUTHERN PINES	KD4QMS	444.800	+	T118.8	
STANFIELD	KC4FWC	443.200	+	T77.0	
STATESVILLE	N4VOZ	443.450	+		
STATESVILLE	AE4GA	444.700	+	T94.8	☺
TARBORO	N4JEH	444.500	+	T100.0	☺
TARBORO	N4NTO	444.925	+	T118.8	☺
TAYLORSVILLE	W4ERT	441.625	+	T123.0	
TAYLORSVILLE	W4ERT	442.950	+	T151.4	
THOMASVILLE	WW4DC	442.900	+	T88.5	☺
VALDESE	WA4PXV	442.600	+		
WAXHAW	WA4ZRS	444.525	+	T94.8	☺
WAYNESVILLE	N4DTR	444.450	+		
WENTWORTH	N4IV	442.100	+	PROP	☺
WEST JEFFERSON	AB4JJ	443.500	+	T107.2	☺
WILKESBORO	KE4DGP	442.475	+	T107.2	
WILKESBORO	KC4XE	443.550	+	94.8	☺
WILLIAMSTON	K4SER	444.250	+	T131.8	☺
WILMINGTON	N4JDW	442.075	+	T88.5	
WILMINGTON	WA4US	442.175	+		☺
WILMINGTON	WA4US	442.200	+	T	☺
WILMINGTON	K4YNY	442.500	+	T88.5	
WILMINGTON	AD4DN	443.400	+	T88.5	☺
WILMINGTON	WA4US	443.850	+		☺
WILMINGTON	WA4US	443.950	+		☺
WILMINGTON	N4JDW	444.050	+	T88.5	
WILMINGTON	WA4US	444.200	+		☺
WILMINGTON	WA4US	444.450	+		☺
WILMINGTON	WA4US	444.650	+		☺
WILMINGTON	K4GMP	444.850	+	T88.5	☺
WILSON	W4EJ	444.900	+	T179.9	☺
WINGATE	WB4U	444.875	+	T127.3	☺
WINSTON-SALEM	W4NC	444.275	+		☺
WINSTON-SALEM	KD4MMP	444.725	+	T107.2	☺
YADKINVILLE	KD4KMK	442.025	+	T100.0	☺
YADKINVILLE	N4AAD	442.800	+	T100.0	☺
YOUNGSVILLE	KC4WDI	443.200	+	T88.5	☺
ZEBULON	N1GMV	444.475	+	T88.5	
ZIRCONIA	N2QJI	441.900	+	PROP	☺

900 MHZ

BEAR WALLOW	WA4TOG	927.550	-	PROP	☺
CONCORD	N2QJI	927.6625	-	PROP	☺
DURHAM	KB4WGA	927.6125	-	PROP	☺
RALEIGH	W4FAL	927.6625	-	T156.7	☺
WAYNESVILLE	N4DTR	927.6625	-	T131.8	

1270 MHZ

#CHARLOTTE	W4PPN	1253.250	+	UNCOR	
CONCORD	N2QJI	1282.525	-	PROP	☺
GASTONIA/CRWDR	AG4EI	1292.820	-		☺
WILMINGTON	AD4DN	1291.410	-	88.5	☺

SOUTH CAROLINA

10 METERS

SUMTER	W4GL	29.660	-		☺

6 METERS

BISHOPVILLE	K4NOC	53.090	-		☺
CHESTER	KF4SXO	53.290	-		
GVL/CSR'S HEAD	KO4MZ	53.410	-	T131.8	
LEESVILLE	N5CWH	53.270	-	T162.2	☺
LITTLE MOUNTAIN	KN4AS	53.190	-	T156.7	
MOUNTAIN REST	KF4IWA	53.590	-		
ORANGEBURG	AD4U	53.210	-		☺
ROCK HILL	KI4D	53.250	-	PROP	☺
SUMTER	W4GL	53.770	-		☺
UNION	K4USC	53.150	-		☺
WALTERBORO	KG4BZN	53.310	-	123.0	☺

2 METERS

AIKEN	KY4S	145.170	-		☺
AIKEN	N4ADM	147.285	+		☺
ANDERSON	N4AW	146.970	-		☺
ANDERSON/SAS MT	N4AW	146.790	-		☺
BAMBERG	WA4DFP	145.330	-		
BARNWELL	KK4BQ	147.030	+	T156.7	☺
BEAUFORT	W4IAR	145.310	-		☺
BEAUFORT	KD4KOJ	146.655	-		☺
BISHOPVILLE	K4NOC	145.170	-	T123.0	☺
BISHOPVILLE	W4APE	146.925	-		☺
CAMDEN	KT4NZ	146.820	-	PROP	
CHARLESTON	WA4USN	145.250	-	123.0	
CHARLESTON	K4ESG	146.760	-	T	
CHARLESTON	WA4USN	146.790	-		
CHARLESTON	KT4YW	146.835	-		☺
CHARLESTON	N7GZT	146.940	-	T	☺
CHARLESTON	KE4HHR	147.300	+	T103.5	
CHARLESTON	KF4CDR	147.345	+	T	
CHARLESTON AR	WA4USN	145.410	-		☺
CHARLESTON AREA	W4ANK	147.270	+		
CHERAW	W4APE	145.490	-		☺
CHESTER	W4CHR	145.310	-		☺
CHESTER	KF4SXO	146.625	-		
CHESTERFIELD	K4CCC	147.135	+		☺
CLEMSON UNIV	WD4EOG	145.450	-	T	
COLUMBIA	N7GZT	145.270	-	T162.2	☺
COLUMBIA	WB4NEP	146.715	-		
COLUMBIA	KF4GHC	147.330	+	156.7	☺
COLUMBIA	N4EOY	147.360	+		
DILLON/PEE DEE	W4PDE	146.745	-		☺
EASTOVER	KT4BU	147.075	+	T156.7	☺
ELLOREE	KC4WIF	146.610	-	T118.8	☺
FLORENCE	W4ULH	146.850	-		☺
FLORENCE	W4GEY	146.970	-		☺
FLORENCE	W4APE	147.195	+		☺
FORT JACKSON	KF4GHC	146.775	-	T156.7	☺
FORT MILL	WZ4SC	145.110	-		☺
FORT MILL	W4DXA	147.180	+		☺
GAFFNEY	WB4BLI	145.470	-	141.3	☺
GEORGETOWN	KI4CB	147.375	+		☺
GREELEYVILLE	KG4AQH	145.230	-		☺
GREENVILLE	W4IQQ	146.940	-	67.0	☺
GREENWOOD	W4JAK	145.130	-		☺
GREENWOOD	W4GWD	147.165	+	107.2	☺
#GREENWOOD	K4LEO	147.375	+	UNCOR	
GRNVLE/CSRS HD	W4NYK	146.610	-		☺
GRNVLE/PARIS MT	W4NYK	146.820	-		☺
HILTON HEAD	W4IAR	147.240	+	T	☺
#LANCASTER	W4PAX	146.700	-	UNCOR	☺
LANCASTER	AC4VT	147.240	+	T88.5	
LAURENS	KD4HLH	146.865	-	T107.2	☺
LEESVILLE	N5CWH	146.655	-	T162.2	☺
LEESVILLE	W4RRC	147.255	+	T123.0	☺
LEXINGTON	KA4FEC	147.390	+		☺
LITTLE MT.	K4AVU	147.210	+		
LITTLE RIVER	KF4VGX	146.865	-	PROP	
MARION	KD4HTW	147.000	-	T192.8	☺
MONCKS CORNER	WD4NUN	147.150	+	T	☺
MOUNTAIN REST	KU4OL	147.030	-		
MYB BCH/BRKSVIL	N4LV	147.285	+		
MYR BCH/ANYOR	K4SHP	147.090	+	PROP	☺
MYR BCH/CONWAY	W4GS	145.110	-		☺

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

S. CAROLINA REPEATERS CONTINUE

MYR BCH/CONWAY	KI4CB	145.470	-		☺
MYRTLE BEACH	W4GS	145.290	-	85.4	☺
MYRTLE BEACH	W4GS	147.120	+		☺
MYRTLE BEACH	K2PJ	147.240	+	PROP	
N. AUGUSTA	K4NAB	146.730	-	T	☺
#N. MYRTLE BEACH	N4JTH	147.030	+	UNCOR	☺
ORANGEBURG	KF4ATU	146.805	-	T156.7	
ORANGEBURG	N7GZT	146.880	-	T	☺
ORANGEBURG	KF4ATU	147.090	+	T156.7	
PAGELAND	W4APE	146.895	-		☺
PALMETTO	KB4RRC	147.345	+	PROP	
PAULINE	K4JLA	147.090	+		☺
PICKENS	WT4F	146.700	-	107.2	
PICKENS	WB4YXZ	147.000	-	151.4	
PINE RIDGE	KD4BMX	146.955	-	T162.2	☺
PUMPKINTOWN	KU4ZS	145.290	-	PROP	
ROCK HILL	K4YTZ	147.030	-		
SAVANNAH RIVER	W4ZKM	145.450	-	PROP	
SENECA/LONG MT	WA4JRJ	147.270	+		☺
SIMPSONVILLE	WA4UKX	145.250	-	PROP	☺
SIMPSONVILLE	WA4UKX	146.730	-	100.0	☺
SMOAKS	KG4LAP	145.210	-		
SPARTANBURG	K4JLA	147.315	+		☺
ST. GEORGE	K4ILT	147.045	+	103.5	☺
ST. GEORGE	W4DTW	147.225	+		☺
ST. MATTHEWS	AD4U	146.670	-	T156.7	☺
SUMMERTON	N4LWY	145.150	-		
SUMMERVILLE	W4HNK	147.180	+	123.0	☺
SUMTER	K4JR	145.130	-		☺
SUMTER	K4JR	145.430	-	T156.7	☺
SUMTER	W4GL	146.640	-		☺
SUMTER	W4GL	147.015	+	156.7	☺
SUMTER/SHAW	W4VFR	147.060	+		
UNION	K4USC	145.150	-		☺
UNION	K4USC	146.685	-		☺
WALTERBORO	KG4BZN	145.390	-		
WALTERBORO	KG4BZN	147.135	+		☺
WHITE HALL	WA4SJS	146.910	-	156.7	☺

220 MHZ

BISHOPVILLE	K4NOC	224.860	-		☺
COLUMBIA	N7GZT	224.160	-		☺
COLUMBIA	N7GZT	224.640	-		☺
COLUMBIA	N4EOY	224.900	-		
CROSS	KB4VFD	224.580	-		
FLORENCE	N4JJ	224.940	-		☺
FORT MILL	WZ4SC	224.800	-		☺
GAFFNEY	KG4JIA	224.500	-	T123.0	☺
GREENVILLE	W4ILY	224.200	-		☺
GRNVL/DOWNTWN	W4NYK	224.920	-	88.5	☺
LEESVILLE	N5CWH	224.560	-	T162.2	☺
LITTLE MTN	N7GZT	224.520	-		☺
ORANGEBURG	N7GZT	224.180	-		☺
ORANGEBURG	KO4BR	224.780	-		☺
PICKENS	AC4RZ	224.280	-		
PICKENS	WB4QHF	224.400	-	T131.8	☺
PICKENS/CSRS HD	WB4QHF	224.140	-	T131.8	☺
PICKENS/SASFR MT	W4IT	224.320	-		☺
SUMTER	W4GL	224.120	-		☺
SUMTER/SHAW	W4VFR	224.660	-		
WEST SPRINGS	KN4CW	224.440	-		☺

440 MHZ

ABBEVILLE	KD4HEY	442.750	+	T162.2	☺
AIKEN	AC4WW	443.400	+	T107.2	
BISHOPVILLE	K4NOC	444.500	+	123.0	☺
BLUFFTON	WA4MPZ	442.675	+	100.0	☺
CHARLESTON	N4SJW	442.150	+	PROP	
CHARLESTON	KF4CDR	442.775	+	T	
CHARLESTON	N4MNH	444.300	+		
CHARLESTON	KD4PBC	444.950	+	103.5	
CLEMSON UNIV.	WD4EOG	444.625	+	T156.7	
CLOVER	KC4KPJ	443.725	+	127.3	☺
COLUMBIA	N7GZT	442.200	+	162.2	☺
COLUMBIA	KF4GHC	444.200	+	T156.7	☺
COWPENS	KE4EAN	443.625	+	T136.5	☺
EASLEY/SAS MTN	AC4RZ	444.925	+	T103.5	
FLORENCE	W4ULH	444.000	+		
FORT MILL	WZ4SC	443.475	+		☺
GAFFNEY	AI4M	442.000	+	114.8	☺
GEORGETOWN	KI4CB	444.925	+	T	☺
GREELEYVILLE	KG4AQH	441.525	+	PROP	☺
GREENVILLE	KB4PQA	442.250	+		☺
GREENWOOD	W4GWD	443.900	+	107.2	☺
GRNVLE/PARIS MT	W4IQQ	443.350	+		☺
KNIGHTSVILLE	WA4USN	441.350	+		☺
LAKE MURRAY	N4UHF	444.650	+	T	
LAKE WYLIE	W1WBT	444.050	+	T136.5	☺
LANCASTER	KC4AC	444.100	+		
LAURENS	KD4HLH	443.175	+	T146.2	☺
LAURENS	KF4Y	443.775	+	T141.3	
LEESVILLE	N5CWH	443.500	+	162.2	☺
LEXINGTON	N4GUP	421.250	+		
LIBERTY	N4VDE	443.975	+	PROP	
LITTLE MT	NK4W	442.975	+	T162.2	
MOUNTAIN REST	AE4PZ	442.775	+	T127.3	
MT PLEASANT	W4HNK	443.800	+	123.0	☺
MT. PLEASANT	WA4USN	441.450	+		☺
MYB BCH/BRKSVIL	N4LV	444.525	+		
MYR BCH/CONWAY	W4GS	444.675	+	T85.4	☺
MYRTLE BEACH	K2PJ	444.575	+	85.4	☺
NO. CHARLESTON	KT4YW	444.600	+		☺
ORANGEBURG	WM3O	444.975	+		
PACOLET	AG4VT	441.900	+	PROP	
PICKENS	WT4F	442.125	+		
PICKENS/CSRS HD	WB4QHF	442.400	+	T127.3	☺
ROCK HILL	KI4D	443.100	+	PROP	
ROCK HILL	KC4KPJ	444.725	+	127.3	☺
SIMPSONVILLE	AA4LB	442.725	+	T100.0	☺
SPARTANBURG	KU4ZS	442.175	+	PROP	
SUMMERVILLE	KC4ED	442.300	+	T	☺
SUMTER	WZ4O	421.250	+		
SUMTER	W4GL	444.150	+	123.0	☺
UNION	K4USC	442.100	+		☺
WALTERBORO	KG4BZN	444.550	+	123.0	☺

TENNESSEE

10 METERS

GALLATIN/BNA	W4CAT	29.640	-	T107.2	☺
GREENEVILLE	WB4NKM	29.640	-		
MEMPHIS	W4ZJM	29.620	-	T*#	
SPRINGFIELD	N8ITF	29.680	-		
TELLICO PLAINS	AJ4D	29.620	-	PROP	

6 METERS

CHATTANOOGA	K4VCM	53.350	-		☺
COOKEVILLE	WA4UCE	53.190	-	PROP	☺
DRESDEN	KG4IBW	53.130	-	T107.2	
GALLATIN	WA4BGK	53.050	-	T114.8	
GEORGETOWN	WD4OAR	53.730	-	PROP	
GREENEVILLE	N4FV	53.010	-	PROP	
GUTHRIE (TN/KY)	KA4ZKL	53.230	-		
KINGSPORT	K4GX	53.430	-	PROP	
#KNOXVILLE	WA4YON	53.250	-	UNCOR	☺
KNOXVILLE	KB4REC	53.470	-	PROP	☺
KNOXVILLE	N4OQJ	53.550	-	PROP	☺
KNOXVILLE/RACK	W4BBB	53.770	-	100.0	☺
KNXVL/ENG MT	WB4IOB	53.150	-		☺
LAFOLLETTE	K4BGW	53.170	-	PROP	
LANEVIEW	KE4OVN	53.710	-	T107.2	
LEXINGTON	N5YKR	53.150	-	T100.0	
MARYVILLE	KC4PDQ	53.370	-		☺
MEMPHIS	WA4KOG	53.010	-		
MEMPHIS	K4RDK	53.550	-		
MEMPHIS	W4GMM	53.930	-	T107.2	☺
MONTEAGLE MTN	NQ4Y	53.450	-	114.8	☺
MORRISTOWN	KF4FTD	53.030	-	PROP	
MORRISTOWN	KQ4E	53.230	-		
MOUNTAIN CITY	K4DHT	53.330	-	PROP	
MT. JULIET	KB4IDC	53.330	-	PROP	
NASHVILLE	WA4BGK	53.010	-	T114.8	
OAK RIDGE	WD4GYN	53.110	-		
#ROGERSVILLE	K4GX	53.750	-	UNCOR	
SEVIERVILLE	KD4PBC	53.090	-	PROP	
SPRINGFIELD	N8ITF	53.150	-		
WAVERLY	NO4Q	53.090	-		☺

2 METERS

ALAMO	WB4EDS	147.135	+		
ANDERSON CTY	KF4BVQ	146.700	-	T100.0	☺
ARNOLD A.F.B.	KC4FV	147.195	+		☺
ATHENS	KG4FZR	145.150	-	T141.3	☺
ATHENS	WA4PNI	145.310	-	T141.3	☺
BENTON	K4SIR	145.450	-	T	
BLOUNTVILLE	W4CBX	147.000	+		☺
BOLIVAR	AF4O	147.045	+		☺
BRADEN	WA4KOG	145.490	-		
BRISTOL	W4UD	146.670	-		☺
BRISTOL	WD4CYZ	146.880	-		
BROWNSVILLE	WF4Q	145.430	-	T107.2	☺
BROWNSVILLE	KI4BXI	146.655	-		
BRSTL/HOLSTN MT	K4JP	146.760	-		
BRUCETON	WF4Q	145.170	-	T107.2	☺
CARTHAGE	N4OTT	145.190	-		☺
CENTERVILLE	AG4UW	147.090	+	T123.0	
CENTERVILLE	AG4UW	147.255	+	T123.0	
CHARLESTON	KD4LDU	147.060	-	T141.3	
CHATTANOOGA	K4CMY	145.130	-		
CHATTANOOGA	W4AM	145.290	-	T118.8	
CHATTANOOGA	W4AM	145.390	-		
CHATTANOOGA	W4AM	146.610	-		
CHATTANOOGA	W4AM	146.790	-		
CLARKSVILLE	K4ORE	146.925	-	PROP	
CLARKSVILLE	AC4RS	147.000	+	T167.9	☺
CLARKSVILLE	KF4L	147.390	+	T123.0	☺
CLEVELAND	W4GZX	146.925	-		☺
CLEVELAND	KD4NEC	147.105	+		☺
CLEVELAND	WD4DES	147.180	+	T118.8	☺
COLLEGEDALE	KA6UHV	147.000	+	T131.8	☺
COLLIERVILLE	WT4E	145.330	-	T107.2	
COLUMBIA	W4GGM	147.120	+	T127.3	☺
COOKEVILLE	KK4TD	145.110	-		☺
COOKEVILLE	WA4UCE	145.430	-		☺
COOKEVILLE	W4HPL	147.210	+		☺
CORNERSVILLE	WB4VXX	146.625	-	107.2	
CORNERSVILLE	KF4TNP	146.805	-	114.8	
CROSS PLAINS	K4BBN	147.345	+		☺
CROSSVILLE	W4EYJ	146.805	-	131.8	
#CROSSVILLE	W8EYU	146.865	-	UNCOR	
CROSSVILLE	KF4HNV	146.895	-	PROP	
CUMBERLAND CITY	WD4DBJ	145.330	-		☺
DANDRIDGE	WD4EGD	146.895	-	T	
DAYTON	K4PHT	147.345	+		
DAYTON/RHEA CTY	K4DPD	147.390	+		☺
DICKSON	KN4HL	147.375	+		☺
DOVER	KT4WS	145.250	-	100.0	
DOVER	N4VIH	145.410	-	T123.0	☺
DYERSBURG	W4MV	146.745	-		☺
ELIZTON/HOLS MT	KF4ZQA	145.290	-	T100.0	☺
ERWIN/PINNACLE	N4WXS	145.250	-	T	☺
ERWIN/UNICOI	KF4BRS	147.165	+		☺
FAYETTEVILLE	W4BV	147.030	+		☺
FRANKLIN	W4XS	145.150	-		
GALLATIN	W4LKZ	147.240	+	T114.8	☺
GALLATIN	WD4BKY	147.270	+	T114.8	☺
GALLATIN	W4CAT	147.300	+	T114.8	☺
GERMANTOWN	W2GLJ	145.210	-		
GRAY	WM4T	145.110	-		
GREENBRIER	WQ4E	147.075	+	T107.2	☺
GREENEVILLE	W4WC	145.390	-		
GREENEVILLE	K4MFD	145.410	-	T173.8	☺
GREENEVILLE	N4FV	147.060	+	186.2	
GREENFIELD	KE4OVN	145.350	-	107.2	
GTLBG/COVE MTN	WA4KJH	146.850	-	T127.3	
HARRIMAN	KA4QYI	146.640	-	T100.0	☺
HARRIMAN	KC4WHL	146.745	-		
HENDERSON	K4TC	147.105	+	T	☺
HOWENWALD	K4TTC	146.895	-	100.0	☺
HUNTINGDON	KB4YTM	146.835	-		
JACKSON	KF4SC	145.310	-		☺
JACKSON	WF4Q	146.775	-	T107.2	☺
JACKSON	WF4Q	147.210	+	PROP	☺
JACKSON	WB0TMC	147.270	+		
JAMESTOWN	K4NLP	147.090	+	T100.0	☺
JASPER	KD4XV	145.190	-	T127.3	☺
JOHNSON CITY	W4ABR	146.790	-		☺
JOHNSON CITY	KE4FH	147.270	+		☺
JONESBOROUGH	WD4OBW	146.925	-		☺
KNGSPT/BAYS MT	W4TRC	146.970	-		
KNOXVILLE	WB4GBI	145.170	-		☺
KNOXVILLE	WA4TEM	145.330	-		☺
KNOXVILLE	KB4KIE	145.370	-		
KNOXVILLE	WB4YLC	145.430	-		☺
KNOXVILLE	WB4GBI	145.470	-		☺
KNOXVILLE	WB4GBI	146.625	-	T100.0	☺
KNOXVILLE	KC4ROG	146.910	-	T	
KNOXVILLE	WB4GBI	146.940	-		☺
#KNOXVILLE	KD4CWB	147.000	-	UNCOR	
KNOXVILLE	WB4GBI	147.075	+		☺
KNOXVILLE	KD4CWB	147.195	+	PROP	
KNOXVILLE/RACK	W4BBB	145.210	-	T100.0	☺
KNOXVILLE/RACK	W4BBB	147.300	+	T100.0	☺
KNXVL/ENG MT	WB4IOB	146.730	-		☺
LAFAYETTE	KC4ECD	145.310	-	T151.4	☺
LAFOLLETTE	KA4OAK	145.130	-		
LAFOLLETTE	K4BGW	146.670	-		
LAFOLLETTE	KA4OAK	147.360	+		
LAKE CITY	WB4OAH	146.820	-		
LAVERNE	W4CAT	145.230	-		☺
LAWRENCEBURG	W4RDM	146.655	-	T	
LEBANON	W4LYR	147.105	+	T100.0	☺
LIVINGSTON	N2UP	147.045	+		☺
MANCHESTER	W4UOT	146.700	-	T114.8	☺
MARTIN	W4UTM	146.625	-	T107.2	
MARYVILLE/ALCOA	W4OLB	146.655	-		☺
MAYNARDVILLE	KB4KIE	145.230	-		
MCEWEN	NO4Q	147.225	+		☺
MCMINNVILLE	WD4MWQ	146.970	-		
MCMINVL/SHT MT	WB4LHO	145.490	-		
MCNAIRY	WF4Q	147.075	+	T107.2	☺
MEDINA	WA4RWK	146.970	-		
MEMPHIS	KF4ATY	145.130	-	T107.2	☺
MEMPHIS	K0JXI	145.150	-		
MEMPHIS	N4ER	145.250	-	T146.2	☺
MEMPHIS	K5FE	145.410	-	T107.2	
MEMPHIS	WA4KOG	145.450	-		
MEMPHIS	WB4KQQ	146.640	-		
MEMPHIS	KE4LFZ	146.730	-	T107.2	☺
MEMPHIS	W4KIB	146.790	-	T107.2	
MEMPHIS	W4BS	146.820	-	T	
MEMPHIS	WA4KOG	146.850	-		
MEMPHIS	WA4KOG	146.880	-		
MEMPHIS	N4BSM	146.940	-	T107.2	
MEMPHIS	W4ZJM	147.000	-	T*#	
MEMPHIS	W4EM	147.030	+	T107.2	☺
MEMPHIS	WA4MQQ	147.060	+		☺
MEMPHIS	W4GMM	147.090	+	T107.2	☺
MEMPHIS	N4WAH	147.120	+	T107.2	
MEMPHIS	WA4KOG	147.180	+		
MEMPHIS	WA4ADT	147.300	+	107.2	
MEMPHIS	W4BS	147.360	+	T107.2	
MONTEAGLE MTN	NQ4Y	145.410	-	T114.8	☺
MONTEREY	W4SRX	145.270	-	PROP	
MORGAN COUNTY	WD4ORB	147.330	+	T82.5	☺
MORRISTOWN	KQ4E	145.450	-		

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

TENNESSEE REPEATERS CONTINUE

MORRISTOWN	KQ4E	147.030	+		☺
MORRISTOWN	WB4OAH	147.225	+		
#MORRISTOWN	KQ4E	147.390	+	UNCOR	
MOSCOW	KF4OID	145.110	-	107.2	☺
MOUNTAIN CITY	KF4RBR	145.470	-	103.5	☺
#MT PLEASANT	KF4GHD	145.450	-	UNCOR	☺
MURFREESBORO	WB4LHO	145.170	-		
NASHVILLE	KC4WPS	145.130	-	T114.8	
NASHVILLE	N4ARK	145.210	-		☺
NASHVILLE	WR3S	145.370	-		☺
NASHVILLE	N4ARK	145.470	-		☺
NASHVILLE	WA4PCD	146.610	-	T	☺
NASHVILLE	AF4TZ	146.640	-	T114.8	☺
NASHVILLE	AF4TZ	146.670	-	T114.8	☺
NASHVILLE	WA4PCD	146.760	-	T114.8	☺
NASHVILLE	W4SQE	146.790	-	T100.0	☺
NASHVILLE	W4AY	146.850	-	T114.8	
NASHVILLE	WA4PCD	146.880	-	T	☺
#NASHVILLE	NT4L	146.955	-	UNCOR	
NASHVILLE	KC4PRD	146.985	-		☺
NASHVILLE	AF4TZ	147.015	+	T	☺
NASHVILLE	K4AYN	147.045	+		
NASHVILLE	K4ZGA	147.180	+	T114.8	
NASHVILLE	AF4TZ	147.360	+	T	☺
NASHVILLE WEST	WA4PCD	147.150	+	T114.8	☺
NASHVL/FAIRVIEW	N4ARK	145.110	-	151.4	☺
NOLENSVILLE	WD4JYD	145.350	-	114.8	☺
OAK RIDGE	W4SKH	146.880	-		☺
OAK RIDGE	W4SKH	146.970	-		☺
OAK RIDGE	W4SKH	147.120	+	T82.5	☺
OAK RIDGE	K4EAJ	147.150	+	T82.5	☺
OAKFIELD	WA4BJY	147.390	+	T	
ONEIDA	KB4PNG	145.350	-	PROP	
#ONEIDA	KB4PNG	146.820	-	UNCOR	
PARIS	KC4YLL	147.165	+	T114.8	
PARIS	K4KLX	147.360	+		
PETROS/FRZ HD MT	KJ4SI	147.255	+		☺
PIGEON FORGE	KD4CLA	145.270	-	T100.0	☺
PIKEVILLE	KF4JPT	147.285	+		☺
PULASKI	WD4RBJ	147.330	+	100.0	☺
PULASKI/MUSIC MT	W4JVO	146.775	-		
PURYEAR	WA4CEX	147.165	+		
RAMER	WB4MMI	146.700	-	T107.2	☺
RCKWD/MT ROSVLT	KE4RX	147.015	+		☺
#RICHLAND	KF4TNP	147.390	+	UNCOR	
RIDGETOP	K4DXC	145.290	-	114.8	☺
RIPLEY	KE4NTL	145.230	-	T100.0	☺
ROGERSVILLE	KD4HZN	147.315	+	T114.8	
SALTILLO	KB4JUB	146.715	-		
SARDIS	AF4OQ	147.195	+	T94.8	
SELMER	WB4MMI	146.805	-	T107.2	☺
SHELBYVILLE	N4VFB	147.060	+		☺
SHILOH	WF4Q	145.290	-	T107.2	☺
SHORT MTN	W4YXA	146.910	-		
SPARTA	N4ARK	147.315	+	T123.0	☺
SPARTA/WHITE	KR4BT	147.165	+	T123.0	☺
TELLICO PLAINS	KE4VQM	147.315	+	T141.3	☺
TRENTON	KN4KP	146.865	-		
UNION CITY	WA4YGM	146.700	-		
UNION CITY	WF4Q	147.015	+	T107.2	☺
WALLAND	KF4ARH	146.685	-	T88.5	☺
WARTBURG	AA4YQ	146.745	-		☺
WATERTOWN	K4EHL	146.730	-	T100.0	☺
WATERTOWN	W4LYR	146.835	-	T100.0	☺
WINCHESTER	W4UOT	146.820	-		☺

220 MHZ

BLOUNTVILLE	W4CBX	224.200	-		☺
CHATTANOOGA	K4VCM	224.780	-		
CLARKESVILLE	N4PJX	224.420	-	123.0	
CLEVELAND	KK4US	224.320	-		
CLEVELAND	W4RRG	224.920	-		☺
COALFIELD	KC4WGH	224.840	-	T88.5	☺
COLLIERVILLE	KB4YGI	224.400	-		
ERWIN	KB8FPK	224.180	-		☺
GALLATIN	W4CAT	223.980	-	107.2	☺
GALLATIN	KD4VUW	224.700	-		
GATLINBURG	W4UWH	224.620	-		
GREENBRIAR	WQ4E	224.800	-		☺
GREENBRIER	WQ4E	224.760	-		☺
GREENEVILLE	K4MFD	224.720	-	T173.8	☺
GREENEVILLE	W4WC	224.900	-	T100.0	☺
GREENEVILLE	WB4NKM	224.940	-		
HERMITAGE	WB4SJV	223.900	-		
JC/BUFFALO MT	KE4FH	224.780	-		☺
KNOXVILLE	WB4GBI	224.340	-		☺
KNOXVILLE	N4OQJ	224.380	-	100.0	☺
KNOXVILLE	N4KFI	224.580	-	T103.5	
KNOXVILLE	K4PCK	224.760	-		☺
KNOXVILLE/RACK	W4BBB	224.500	-	T100.0	☺
KNXVL/CROSS MT	KB4FZK	224.220	-	T100.0	☺
LAFOLLETTE	KA4OAK	224.280	-		
LAVERGNE	WR3S	224.360	-		☺
LEWISBURG	KF4TNP	224.100	-		
MEMPHIS	W4ZJM	223.940	-	T*#	
MEMPHIS	W4BS	224.420	-		
MEMPHIS	WA4KOG	224.780	-		
MORRISTOWN	N4RBB	224.400	-		
MORRISTOWN	KC4RGQ	224.640	-		
MURFREESBORO	KD4TZZ	224.600	-	123.0	☺
NASHVILLE	WR3S	224.160	-		
#NASHVILLE	KC4TFQ	224.440	-	UNCOR	
NASHVILLE	WR3S	224.460	-		
NASHVILLE	K4ZGA	224.480	-		
NASHVILLE	WR3S	224.660	-		
NASHVILLE	N4PYI	224.740	-	T100.0	☺
NASHVILLE	KC4PRD	224.840	-		☺
NASHVILLE	WA4PCD	224.940	-	T	☺
NEWPORT	AC4JF	224.560	-	T100.0	☺
ONEIDA	KB4PNG	224.140	-		
ROGERSVILLE	KD4HZN	224.480	-		
S. PITTSBURG	WR3S	224.760	-		
SE NASHVILLE	WR3S	224.960	-		
SEVIERVILLE	N2FUV	224.440	-	T	
SEVIERVILLE	KD4IBW	224.700	-	T100.0	
SEVIERVILLE	KD4IBW	224.800	-		
SHORT MTN.	N4PYI	224.260	-	T114.8	☺
SMITHVILLE	WR3S	223.960	-		☺
SPRINGFIELD	KO4BN	224.220	-		
SPRINGFIELD	N8ITF	224.540	-		
SWEETWATER	WD9JGI	224.900	-	T127.3	

440 MHZ

ALAMO	WB4EDS	443.750	+		
BARTLETT	K4VVM	443.700	+	T107.2	
BARTLETT	WA4PAJ	444.250	+		
BIG SANDY	W4TLB	443.600	+	114.8	☺
BLUFF CITY	KE4CCB	444.500	+	T77.0	
BRICK CHURCH	KF4TNP	443.100	+	T167.9	
CASTALIAN SPRING	KE4SWV	442.750	+	PROP	
CENTERVILLE	AG4VW	443.700	+	PROP	
CENTERVILLE	AG4UW	444.700	+	T107.2	
CHAT/MNTLAKE MT	KD4UWA	444.875	+	T156.7	☺
CHAT/WALDEN	AF4ZJ	442.425	+		
CHATT/HIXSON	N4WT	442.900	+		☺
CHATTANOOGA	WJ9J	442.025	+	T	☺
CHATTANOOGA	WJ9J	442.150	+		☺
CHATTANOOGA	KT4OL	443.125	+	PROP	☺
CHATTANOOGA	KT4OL	443.125	+	PROP	☺
CHATTANOOGA	WB4LRD	443.550	+		
CHATTANOOGA	KD4HII	443.900	+	T	
CHATTANOOGA	W4AM	444.100	+		
CHATTANOOGA	KE4LQY	444.150	+		☺
CHATTANOOGA	KD4HII	444.200	+	T	
CLARKSVILLE	KA1FFO	442.900	+	T110.9	
CLARKSVILLE	WA4BZU	444.325	+	T107.2	
CLEVELAND	WD4DES	442.250	+	T118.8	☺
CLEVELAND	KD4NED	442.450	+	PROP	
CLEVELAND	W4GZX	444.275	+		☺
COLLEGEDALE	KA6UHV	443.575	+	T131.8	☺
COLLIERVILLE	KA7UEC	443.300	+	107.2	☺
COLLIERVILLE	KA7UEC	443.625	+	T107.2	☺
COLLIERVILLE	WT4E	444.625	+	T107.2	
COLUMBIA	W4RDM	442.725	+		
COLUMBIA	WA4AKM	444.925	+	T107.2	
CONCORD	KA4BNI	442.675	+	T107.2	☺
COOKEVILLE	WA4UCE	442.300	+	107.2	☺
COOKEVILLE	K4DAV	444.500	+	PROP	
COOKEVILLE	NQ4Y	444.550	+	T107.2	☺
COOKEVILLE	WS4S	444.600	+	T107.2	
CROSSVILLE	WO4U	443.875	+	PROP	☺
CROSSVILLE	W4EYJ	444.950	+	T118.8	
CUMBERLAND FU	KG4CEO	442.375	+	T107.2	☺
DAYTON	KJ4BJ	442.075	+		☺
DEASON	WA4AWI	443.350	+	T107.2	
DECATUR	KE4MBR	442.725	+	PROP	
DOVER	N4VIH	444.925	+		☺
DRESDEN	KA4BNI	442.150	+	T107.2	☺
ETOWAH	KF4CFO	442.275	+	141.3	☺
EVA	AD4QG	443.625	+		
FRANKLIN	N4ULM	443.850	+		
FRANKLIN	WC4EOC	444.025	+	PROP	
FRANKLIN	WA4AKM	444.725	+	T107.2	
GALLATIN	WD4BKY	444.000	+	T	☺
GALLATIN	WD4BKY	444.350	+	T114.8	☺
GALLATIN	W4CAT	444.450	+	T107.2	☺
GALLATIN	WA4AKM	444.775	+	T107.2	
GATLBG/COVE MT	WA4KJH	443.300	+	T127.3	
GATLINBURG	KD4PBC	443.150	+	PROP	☺
GERMANTOWN	W2GLJ	444.175	+		☺
GOODLETTSVILLE	KC4PRD	443.125	+	107.2	☺
GRAY	WM4T	442.200	+	T100.0	
GREENBRIER	WQ4E	444.250	+		☺
GREENEVILLE	W4WC	443.200	+	100.0	
GREENEVILLE	K4MFD	444.200	+	T173.8	☺
GREENEVILLE	WB4NKM	444.650	+	T100.0	
GREENEVILLE	K4GX	444.950	+	PROP	
GREENVILLE	N4FV	442.700	+	PROP	
HARRIMAN	KC4WHL	442.875	+	T136.5	
HENDERSON	KE4PFW	442.275	+		
HENDERSON	KU4RT	442.575	+		
HENDERSON	K4TC	444.750	+	T	☺
HICKORY VALLEY	KA4JXT	443.125	+	107.2	☺
HIXSON	KF4VWJ	444.750	+	PROP	
HOHENWALD	K4TTC	442.000	+		☺
HOHENWALD	WB4NNX	444.850	+	T100.0	☺
HORNBEAK	KA4BNI	442.400	+	T107.2	☺
HUNTINGDON	KB4YTM	444.375	+		
JACKSON	KA4BNI	442.425	+	T107.2	☺
JACKSON	KE4CES	442.900	+	T114.8	☺
JACKSON	WB0TMC	444.725	+	T107.2	
JAMESTOWN	KC4MJN	443.625	+	T100.0	☺
JASPER	KD4XV	442.050	+	T127.3	☺
JEFFERSON CITY	KD4TUD	444.625	+	T	
#JOHNSON CITY	WB4SQC	442.050	+	UNCOR	☺
JOHNSON CITY	KE4FH	444.100	+		☺
JOHNSON CITY/BUF	WD4ATV	421.250	+		☺
KINGSTON	K4CRS	444.025	+		
KNOXVILLE	WB4HAP	442.500	+	T103.5	☺
KNOXVILLE	N4UAG	443.025	+		
KNOXVILLE	KA4AZQ	443.075	+	PROP	
KNOXVILLE	KD4CWB	443.500	+	T	
KNOXVILLE	KA4AZQ	443.800	+	T100.0	
KNOXVILLE	KD4OBX	443.950	+		☺
KNOXVILLE	KD4CWB	444.000	+	PROP	
KNOXVILLE	KC4NNN	444.175	+	T	
KNOXVILLE	WB4GBI	444.300	+		☺
KNOXVILLE	KB4KSL	444.325	+		
KNOXVILLE	KC4NNN	444.425	+	T	
KNOXVILLE	KD4IBW	444.525	+	T100.0	
KNOXVILLE	KD4TZD	444.925	+		☺
KNOXVILLE/RACK	W4BBB	444.575	+	T100.0	☺
LAFAYETTE	KC4ECD	444.125	+	T107.2	☺
LAFOLLETTE	KB4OTK	443.700	+		☺
LAKE CITY	WD4LUR	442.800	+	T100.0	☺
LANEVIEW	KE4OVN	443.850	+	T107.2	
LAVERGNE	WR3S	443.975	+	T	
LEBANON	KW4LS	443.000	+	PROP	
LEBANON	WA4AWI	443.275	+	T107.2	
LEBANON	W4LYR	443.575	+	T100.0	☺
LEBANON	WA4AXH	444.275	+	T	
LENOIR CITY	KB9EBA	442.950	+	PROP	
LEWISBURG	KF4TNP	442.100	+	107.2	
LEWISBURG	KG4JJB	444.075	+	107.2	
LEXINGTON	KA4BNI	442.075	+	T107.2	☺
LEXINGTON	N5YKR	442.925	+	123.0	
LORETTO	KF4OCK	442.875	+	203.5	
MADISONVILLE	KG4FZS	442.100	+	PROP	
MARYVILLE	K4BTL	442.000	+		
MARYVILLE	KC4PDQ	444.075	+	100.0	☺
MARYVILLE	KF4VDX	444.700	+	T127.3	
MARYVILLE	KE4FGW	444.825	+	T100.0	☺
MCEWEN	KE4KNZ	443.925	+	T107.2	☺
MCKENZIE	KD4KPV	443.875	+		
MCMINNVILLE	WD4MWQ	444.850	+	T	
MCNAIRY	WF4Q	444.550	+	T107.2	☺
MEDINA	WA4BJY	442.050	+		
MEMPHIS	W4GMM	442.175	+	T107.2	☺
MEMPHIS	NU5O	442.575	+	77.0	☺
MEMPHIS	WB4EPG	442.625	+		
MEMPHIS	WF4G	442.825	+		
MEMPHIS	W4ZJM	443.000	+	T*#	
MEMPHIS	KA4JXT	443.100	+	T107.2	☺
MEMPHIS	KA4JXT	443.125	+	T	☺
MEMPHIS	W4BS	443.200	+	T107.2	
MEMPHIS	WA4QWW	443.400	+		
MEMPHIS	N4ER	443.950	+	T	☺
MEMPHIS	K4RDK	444.025	+		
MEMPHIS	KF4ATY	444.075	+	107.2	☺
MEMPHIS	KA4JXT	444.100	+	T	☺
MEMPHIS	KA4JXT	444.125	+	T	☺
MEMPHIS	WA4KOG	444.400	+		
MEMPHIS	N4WAH	444.500	+	T	
MEMPHIS	K0JXI	444.800	+		
MEMPHIS	K5FE	444.825	+	107.2	
MEMPHIS	K7AG	444.850	+	T107.2	
MEMPHIS	WB4NNE	444.950	+		
MILAN	WD4PAX	442.100	+		☺
MONTEAGLE MT.	NQ4Y	441.250	+		☺
#MORRISTOWN	KD4LP	444.800	+	UNCOR	
MORRISTOWN	KQ4E	444.975	+	T	
MOUNTAIN CITY	K4DHT	443.925	+	T103.5	☺
MT JULIET	N4PYI	444.400	+	T	☺
MT JULIET	N4PYI	444.750	+	T156.7	☺
MT PLEASANT	KG4GCZ	443.175	+	107.2	
MURFREESBORO	KD4TZZ	441.875	+	107.2	☺
NASHVILLE	AF4TZ	421.250	+		☺
NASHVILLE	K1YJ	442.500	+	T123.0	☺
NASHVILLE	KE4PJW	443.450	+	PROP	☺
NASHVILLE	W1ARN	443.725	+	T107.2	☺
NASHVILLE	N4PYI	444.050	+	T107.2	☺
NASHVILLE	AF4TZ	444.150	+	T107.2	☺
NASHVILLE	N4ARK	444.200	+	T	☺
NASHVILLE	N4ARK	444.225	+	T114.8	☺
NASHVILLE	WA4BZU	444.300	+	T107.2	
NASHVILLE	WA4BGK	444.525	+	T107.2	
NASHVILLE	WA4PCD	444.550	+		☺
NASHVILLE	WA4WCK	444.575	+	T	
NASHVILLE	WA4TOA	444.625	+	T107.2	
NASHVILLE	WA4PCD	444.675	+	T	☺
NASHVILLE	N4PYI	444.800	+	T110.9	☺
NASHVILLE	WA4AKM	444.875	+	T107.2	
NASHVILLE	WA4AKM	444.975	+	T107.2	
NO CITY LISTED	WC4EOC	443.875	+	PROP	
NOLENSVILLE	WA4AXH	443.650	+	T	

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue!

TENNESSEE REPEATERS CONTINUE

OAK RIDGE	K4EAJ	444.400	+	T82.5	☺
OAKFIELD	WA4BJY	442.200	+	T	
ONEIDA	KT4PN	442.825	+		
PALMER	N4ZKR	444.700	+	PROP	☺
PARIS	KC4YLL	442.950	+	123.0	
PARIS	AD4LR	443.675	+		
PIGEON FORGE	KD4CLA	444.350	+	T156.7	☺
PROSPECT	WA4AUX	444.600	+	T118.8	
PULASKI	WD4RBJ	442.150	+	118.8	☺
RAMER	WB4MMI	444.900	+	T	☺
RCKWOOD/OZONE	WJ9J	442.225	+		☺
ROCKWOOD	KA4WJS	443.975	+		
ROGERSVILLE	K4GX	443.350	+	T	
SELMER	KA4BNI	442.800	+	T107.2	☺
SEVIERVILLE	KD4IBW	443.675	+	T100.0	
SEVIERVILLE	N4CKB	444.725	+	T123.0	☺
SHELBYVILLE	WA4PZN	442.700	+	T	
SHELBYVILLE	KC4KRM	443.825	+		
SHRT MT/MURFREB	W4CAT	444.650	+	T107.2	☺
SMITHVILLE	N4PYI	444.825	+	T107.2	☺
SODDY DAISY	WJ9J	444.450	+		☺
SPARTA	KR4BT	444.375	+	123.0	☺
SPENCER	KA4MHJ	443.775	+	123.0	☺
SPRINGFIELD	N8ITF	442.600	+		
SPRINGFIELD	N8ITF	444.950	+	100.0	
SUMMITVILLE	N4ZKR	444.475	+	T107.2	☺
SWEETWATER	KG4KIJ	443.725	+	PROP	
TRI-CITIES	KD4PBC	443.150	+	PROP	☺
WATERTOWN	W4LYR	444.900	+	T100.0	☺
WAVERLY	NO4Q	442.225	+	110.9	☺
WHITE HOUSE	W4KOC	443.900	+	T107.2	
WHITE OAK MT	WD4OAR	442.925	+	100.0	☺
WINCHESTER	W4UOT	443.950	+	T107.2	

900 MHZ

LEWISBURG	KF4TNP	920.500	-
MORRISTOWN	KQ4E	920.800	-
NASHVILLE	K4ZGA	923.250	-

1270 MHZ

LEWISBURG	KF4TNP	1285.300	-		
MEMPHIS	N4HKS	1292.000	-		
NASHVILLE	WA4AKM	1284.400	-		
NASHVILLE	K1YJ	1286.000	-	T88.5	☺
NASHVILLE	KD4EEW	439.250	+		
SMITHVILLE	WA4AKM	1286.500	-		

VIRGINIA

10 METERS

FANCY GAP	KE4QOX	29.660	-	T123.0	☺
NEWPORT NEWS	W4CM	29.600	+		
STERLING PARK	KD4DN	29.680	-		

6 METERS

ALEXANDRIA	W4HFH	53.130	-		
AMELIA	WB3R	53.390	-		
BALD TOP MT	AD4CG	53.910	-		
BEDFORD/THNDR	N4TZE	53.770	-	T173.8	
BEDFRD/THAX MT	N4CH	53.150	-		☺
BLUEFIELD	N8RIG	53.370	-		
BULLRUN	K8GP	53.450	-		
CHESTERFIELD	KD4SUU	53.430	-		
DANVILLE(DCC)	WB4GJG	53.130	-	T	
FANCY GAP	WA4CQK	53.290	-	T100.0	☺
GATE CITY	N4WWB	53.210	-		☺
GUM SPRING	KB4MIC	53.070	-	203.5	☺
HAMPTON	WA4OHX	53.890	-		
LEXNGTN/ROCK MT.	KI4ZR	53.010	-		☺
LYNCHBURG	KE4KEH	53.570	-	103.5	☺
MCCLEAN	K6LEW	53.370	-		
NEWPORT NEWS	KT4QW	53.250	-	T100	☺
PEARISBURG	KE4JYN	53.470	-	T107.2	☺
RICE	KE4SFU	53.170	-		☺
ROANOKE	N4CH	53.250	-		☺
ROANOKE/POOR MT	WB8BON	53.090	-		☺
ROCKY MT/FERRUM	WD4KZK	53.270	-	T107.2	☺
VESTA	N4GBO	53.430	-	PROP	
WHITE TOP MTN	KB4YFV	53.650	-		

2 METERS

ABINGDN/BRMLY MT	K4JP	146.610	-		
ABINGDON	NM4L	147.345	+	T103.5	☺
ACCOMAC	K4BW	147.255	+	T156.7	☺
ALEXANDRIA	K4US	146.655	-		
ALEXANDRIA	W4HFH	147.315	+		
ALTAVISTA	WA4ISI	146.655	-		☺
AMELIA	WB3R	145.190	-		
AMHERST	K4CQ	145.490	-	T136.5	☺
ARLINGTON	WB4MJF	145.150	-		
ARLINGTON	WB4MJF	145.470	-		
ARLINGTON	KF4JPC	146.625	-		
BEDFORD	N4CH	145.230	-		☺
BEDFORD	WB4JBJ	147.105	+		☺
BEDFRD/APL ORCH	WA1ZMS	146.685	-	T100.0	☺
BIG "A" MTN	KD4TC	146.805	+	T103.5	☺
BLACKSBURG	W9KIC	146.715	-		☺
BLAND	N4AZJ	145.350	-	T103.5	☺
BLUEFIELD	KD8XK	145.250	-	T100.0	☺
BLUEFIELD	W8MOP	145.490	-		
BLUEFIELD/ONEIDA	WZ8E	146.955	-	100.0	☺
BLUEMONT	WA4TSC	147.300	+		
BOYDTON	KD4ZTK	147.240	+		
CARBO	KK4MW	147.075	-	PROP	
CHARLOTTESVILLE	WA4TFZ	146.760	-	T151.4	☺
CHARLOTTESVILLE	WA4TFZ	146.925	-	T151.4	☺
CHESAPEAKE	W4CAR	146.610	-		☺
CHESAPEAKE	N4SD	146.790	-		
CHESAPEAKE	W4CAR	146.820	-	T162.2	☺
CHESTERFIELD	KD4KWP	145.310	-		☺
CHESTERFIELD	KA4CBB	147.360	+		☺
CLINCHCO	KB4RFN	147.150	+	T88.5	
#CLINCHCO	WD4CYZ	147.255	+	UNCOR	
COEBURN	AD4OV	145.430	-	103.5	☺
COLONIAL HEIGHTS	KE4EUE	145.390	-	PROP	☺
COVINGTON	WA4HTI	146.805	-		☺
CULPEPER	AF4CY	145.410	-		
CULPEPER	W4CUL	147.120	+		
DANVILE/WHT OAK	K4AU	146.700	-	107.2	☺
DANVILLE(DCC)	WB4GJG	146.925	-	T107.2	
DUBLIN	W4CBM	146.670	-		☺
DULLES AIRPORT	W4DLS	145.310	-		
EASTVILLE	KC4KMY	147.345	+	T156.7	☺
ELK CRK/IRON MT	N4MGQ	147.240	+	T107.2	
ENON	WB4VWR	147.060	+	T107.2	
FAIRFAX	K4KXK	146.790	-		
FANCY GAP	NC4BL	146.970	-	T100.0	☺
FARMVILLE	KE4ZBH	145.330	-		
FARMVILLE	KE4ZBH	146.910	-		
FARMVILLE	N4CFA	146.955	-	T136.5	☺
FINCASTLE	W4WIC	146.640	-		☺
FOREST	AG4AN	146.775	-	PROP	
FRANKLIN	W4LG	147.300	+	T131.8	☺
FREDERICKSBUR	K4TS	147.015	+		
GALAX/BRIRP MT	W4BRC	147.090	+		☺
GARRISONVILLE	N4NW	145.270	-		
GATE CITY	N4WWB	146.820	-	T	☺
GLOUCESTER	W4HZL	145.370	-	T	☺
GOOCHLAND	N4TZE	147.090	+		
GREENBAY	K4ARO	145.150	-		
GRUNDY	K4HWQ	147.315	+		
GRUNDY/BIG A MT	KK4EH	146.835	-		☺
GUM SPRING	WB4IKL	147.270	+		☺
HAMPTON	WA4OHX	145.490	-		
HAMPTON	W4QR	146.730	-		
HAMPTON	KA4VXR	147.225	+	T136.5	
HARRISONBURG	N4YET	145.130	-		
HARRISONBURG	N4RAG	146.895	-		
HARRISONBURG	N4RAG	147.225	+		
HARRISONBURG	N4YET	147.315	+		
HIGH KNOB MT	K4QZJ	145.210	-		
JARRATT I-95	K4SVA	146.625	-	T100.0	☺
KILMARNOCK	W4GSF	146.835	-	PROP	☺
KINGS CROSSING	N5GQD	147.150	+		
LEXINGTON	KI4ZR	147.300	+	131.8	☺
LEXNGTN/ROCK MT.	KI4ZR	147.330	+		☺
LURAY	KE4JSV	147.030	+		
LYNCHBURG	KC4RBA	145.370	-	186.2	☺
LYNCHBURG	W4WWQ	146.610	-	136.5	☺
LYNCHBURG	AB4M	147.015	-	T131.8	☺
LYNCHBURG	KE4VNN	147.165	+	PROP	
LYNCHBURG	WA4RTS	147.195	+	T136.5	☺
MANASSAS	W4OVH	146.970	-		
MARION	N4QLF	146.640	-	T103.5	
MARTINSVILLE	KF4KVG	147.285	+	T107.2	☺
MCLEAN	W4CIA	147.210	+		
MECHANICSVILLE	W4TTL	146.805	-	PROP	☺
MONTEREY	WD4ITN	147.180	+	T100.0	☺
MONTPELIER	KQ4RH	145.250	-	T	☺
MOUNTAIN LAKE	WZ8E	146.865	+	110.9	☺
MT.LAKE/BALD KNB	K4TUE	146.910	-	107.2	☺
NASA LANGLEY	KG4NJA	146.670	-	173.8	
NEWMARKET	W3MMC	146.625	-		
NEWPORT NEWS	W4MT	145.230	-	T100.0	☺
NEWPORT NEWS	W4CM	147.165	+		
NORFOLK	WA4ZUA	145.170	-	136.5	
NORFOLK	W4VB	145.330	-		☺
NORFOLK	KF8PT	146.700	-	PROP	
NORFOLK	AD4ZK	147.075	+		
NORTON	KF4VDF	146.865	-	T103.5	☺
NORTON/HIGH KNB	K4AXO	147.015	-	T88.5	
PAGECO	KD4DDI	146.670	-		
PATRICK SPRINGS	WG8S	147.120	+	T107.2	☺
PEARISBURG	N4AZJ	147.135	+	T100.0	☺
PEARISBURG	W4NRV	147.375	+	T100.0	☺
PETERSBURG	KE4SCS	146.985	-	T127.3	☺
PETERSBURG	K4ARO	147.390	+		
PKS KB/PULASKI	N4NRV	147.180	+	T103.5	☺
PORTSMOUTH	W4POX	145.390	-	PROP	
PORTSMOUTH	W4POX	146.850	-		☺
QUANTICO	#W4NFR	147.345	+		
RADFORD/RINER	N3ZE	145.150	-		☺
RICHMOND	K4YPE	145.110	-		☺
RICHMOND	W4SQT	145.430	-		☺
RICHMOND	WB4QEY	146.640	-		
RICHMOND	W4RAT	146.880	-		☺
RICHMOND	W4ZA	146.940	-		☺
RICHMOND	WA4JST	147.030	-		
RICHMOND	KC4VDZ	147.135	+	T107.2	☺
ROANOKE	N2EDE	145.210	-	107.2	☺
ROANOKE	N4AP	146.940	-		
ROANOKE/POOR MT	K4ARO	145.390	-	T107.2	
ROANOKE/POOR MT	K4ROA	146.745	-	T107.2	☺
ROANOKE/POOR MT	W4CA	146.985	-		
ROANOKE/POOR MT	KB4QWO	147.270	+		☺
RUSTBURG	N4UTN	145.290	-	T	☺
RUSTBURG/LONG MT	N4UTN	146.835	-	T173.8	☺
SALEM	WA4V	146.880	-		
SALUDA	AA4HQ	145.450	-		☺
SMITHFIELD	WT4RA	147.195	+	T100.0	☺
SOUTH BOSTON	KF4LWH	145.350	-		
SOUTH BOSTON	KF4AGO	147.060	-		
SOUTH HILL	N4ZCM	145.470	-		
SPOTSYLVANIA	K4MQF	146.775	-		
STAUNTON	KD4KAU	145.450	-	T131.8	
STAUNTON	KD4WWF	146.700	-	T131.8	
STAUNTON	WA4ZBP	146.850	-	T131.8	
STAUNTON	W4WRN	146.970	-		
STAUNTON/EL.KB	KE4CKJ	147.045	+	T131.8	☺
STERLING	WA4TXE	146.700	-		
STUARTS DRAFT	KB4OLM	147.360	+		
SUFFOLK	W4LG	147.000	-	T100.0	☺
TYSONS CORNER	KF4QQP	146.910	-		
VIENNA	K4HTA	146.685	-		
VIRGINIA BEACH	WA4KXV	146.895	-		☺
VIRGINIA BEACH	WA4KXV	146.970	-		☺
VIRGINIA BEACH	WA4SBC	147.045	+		
WALKERTON	W4TTL	146.715	-		☺
WARRENTON	KB3BOI	145.350	-		
WARRENTON	NZ4N	147.165	+		
WARSAW	KA4ZIP	147.285	+		☺
WAYNESBORO	W4PNT	147.075	+		☺
WILLIAMSBURG	KF4ADM	145.410	-	127.3	
WILLIAMSBURG	K4RC	146.670	-	T	
WILLIAMSBURG	KB4ZIN	146.760	-		☺
WILLIAMSBURG	KB4ZIN	147.105	+		☺
WINCHESTER	KB3BOI	145.350	-		
WINCHESTER	W4RKC	146.820	-		
WOODBRIDGE	W4IY	147.240	+		
WYTH/WALKER MT	WB3T	146.895	-	T103.5	☺
WYTHEVILLE	WB3T	146.775	-	T107.2	☺

220 MHZ

ARLINGTON	WB4MJF	224.060	-		
ARLINGTON	WB4MWF	224.620	-		
BEDFORD	N4PLV	224.840	-		☺
BEDFRD/APL ORCH	WA1ZMS	224.180	-	T100.0	☺
BELL KNOB	WD4KHP	224.440	-		
BERRYVILLE	WD4KHP	224.400	-		
BERRYVILLE	WD4KHP	224.740	-		
BLUEFIELD	N8FWL	224.440	-	T123.0	☺
BLUEFIELD	WA8O	224.920	-		
BLUEMTN	KF4VED	224.160	-		
CHARLOTTESVILLE	N4HRV	224.140	-	T88.5	☺
CHARLOTTESVILLE	WA4TFZ	224.760	-		☺
CHESAPEAKE	W4LG	224.980	-	PROP	☺
DELTAVILLE	AA4HQ	224.900	-		☺
FAIRFAX	WB4YHD	224.100	-		
FANCY GAP	K4DQ	224.880	-	T100.0	☺
GLOUCESTER	W4GSF	224.620	-		☺
HAMPDEN-SYDNEY	W4JAS	224.200	-		
HAMPTON	WB4PVT	224.540	-	T100.0	☺
HARRISONBURG	N4YET	224.820	-		
HAYMARKET	WD4KHP	224.420	-		
HAYMARKET	WD4KHP	224.720	-		
LAKE GASTON	W4LG	224.600	-		☺
LEESBURG	N0NW	224.020	-		
LOVETTSVILLE	WB4FUJ	224.460	-		
LURAY	KE4JSV	224.360	-		
LYNCHBURG	AB4M	224.280	-		☺
MANASSAS	W4OVH	224.660	-		
MARTINSVILLE	K4RCA	224.500	-		☺
NORFOLK	KC4JGC	224.740	-	T100.0	
NORTON/HIGH KNB	WD4GSM	224.420	-		
PATRICK SPRINGS	WG8S	224.420	-	T103.5	☺
PEARISBURG	KQ4Q	224.860	-	107.2	
PETERSBURG	K4ARO	224.700	-		
RIDGEWAY	WS4W	224.380	-	T	
ROANOKE	N4CH	224.100	-		☺
ROANOKE/CAHAS MT	AB4EM	224.940	-		
ROANOKE/TINKER	K4YDG	224.900	-		☺
STAUNTON/EL KNOB	KE4CKJ	224.300	-	T131.8	☺
TYSONS CORNER	KM4OI	224.340	-		
TYSONS CORNER	WD4KHP	224.420	-		
WAYNESBORO	KA4RCL	224.680	-	T131.8	
WINCHESTER	N3HXT	224.220	-		
WOODBRIDGE	W4IY	224.780	-		
WYTHEVILLE	K4YW	224.560	-	T77.0	

440 MHZ

ABINGDON	KB8KSP	442.975	+	T100.0	☺
ABINGDON	WB3T	444.025	+	T103.5	☺
ACCOMACK	K4BW	444.300	+	T156.7	☺
ALTAVISTA	WA4ISI	444.425	+	100.0	☺
AMELIA	KB4YKV	443.200	+		
ARLINGTON	KD4DSX	448.625	-		

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . conclude!

VIRGINIA REPEATERS CONTINUE

ARLINGTON	W8HNT	449.325	-		
ARLINGTON	WB4MJF	444.150	+		
ARLINGTON	K4AF	444.550	+		
BEDFORD	N4CH	444.350	+		☺
BEDFRD/APL ORCH	WA1ZMS	442.650	+	T100.0	☺
BEDFRD/APL ORCH	WA1ZMS	443.800	+	T100.0	☺
BELL KNOB	WD4KHP	449.825	-		
BENT MT	K4YD	443.675	+	T107.2	☺
BERRYVILLE	WB2KPH	447.475	-		
BIG A MTN	KB4WTP	444.875	+		☺
BLUEFIELD	W8MOP	442.450	+		
BLUEFIELD	W8MOP	444.450	+		☺
BLUEFIELD	WZ8E	444.625	+		☺
BLUEMONT	WA4TSC	449.925	-		
BLUEMONT	WA4TSC	449.925	-		
BULL RUN MT	WA3KOK	447.775	-		
CHARLOTTESVILLE	KF4UCI	442.075	+	151.4	☺
CHARLOTTESVILLE	WA4TFZ	444.250	+	T151.4	☺
#CHARLOTTEVILLE	KF4UCI	444.775	+	UNCOR	
CHESAPEAKE	W4CAR	444.000	+	T162.2	☺
CHESTERFIELD	WA3KOK	433.075	+	PROP	
CHESTERFIELD	KA4CBB	442.150	+		☺
CHESTERFIELD	WA3KOK	442.450	+	PROP	
CHRISTIANSBURG	WD4BSB	444.650	+	PROP	☺
COPPER RIDGE	KB4WTP	444.550	+	PROP	☺
COVINGTON	WA4PGI	442.250	+	T100.0	☺
DALE CITY	N8BOR	443.100	+		
DANVILE/WHT OAK	K4AU	444.700	+		☺
DANVILLE	KQ4I	443.850	+		☺
DISMAL PEAK	WB3T	443.325	+	T103.5	☺
ENON	WB4VWR	444.200	+		
ENON	W4RDF	444.275	+	T114.8	
FAIRFAX	K4HTA	448.375	-		
FAIRFAX	WD4KHP	449.775	-		
FALLS CHURCH	WB4UNB	447.425	-		
FALLSCHURCH	KF4LWJ	444.300	+		
FANCY GAP	WD4ICX	433.200	+		
FANCY GAP	WB3T	444.050	+	T103.5	☺
FANCY GAP	N4OWU	444.375	+	T107.2	☺
FANCY GAP	WA4CQK	444.900	+	PROP	☺
FANCY GAP	KD4FWS	444.925	+	100.0	
FOREST	AG4AN	442.475	+	PROP	
FRONT ROYAL	N4MKH	449.225	-		
GASBURG	W4LG	442.000	+		☺
GATE CITY	N4WWB	444.700	+		☺
GLOUCESTER	N4XND	421.250	+		
GRETNA/SMITH MT	KD4TBC	444.075	+	T123.0	
GUM SPRING	KB4MIC	442.800	+		☺
HAMPTON	WA4OHX	443.750	+	100.0	
HAMPTON	W4QR	444.550	+	T167.9	
HARRISONBURG	N4YET	444.600	+		
HAYMARKET	KT4ER	448.325	-		
HAYMARKET	N3AUY	449.025	-		
HERNDON	N4LXI	443.000	+		
HIGHKNOB	N1TXI	447.725	-		
HILLSVILLE	KB4YFV	442.125	+	T103.5	
INDEPENDENCE	W4RCT	443.375	+	T103.5	☺
JONESVILLE	WB4IVB	442.575	+	T100.0	
LEXINGTON	KI4ZR	444.300	+		☺
LEXNGTN/ROCK MT.	KI4ZR	444.150	+		☺
LORTON	WD4KHP	449.725	-		
LYNCHBG/JACK MT.	KF4YI	442.400	+	T107.2	
LYNCHBRG/TOB MT	K4CQ	444.500	+	T136.5	☺
LYNCHBURG	KB4CVN	420.050	+	136.5	
LYNCHBURG	K4CQ	923.250	-		☺
LYNCHBURG	KE4VNN	442.350	+	PROP	
LYNCHBURG	AB4FU	442.950	+	T	☺
LYNCHBURG	KC4RBA	443.450	+	186.2	☺
LYNCHBURG	N4TZE	444.000	+	T103.5	
LYNCHBURG/T.ROW	N4IFC	442.200	+	T103.5	
MADISON	N8HON	444.400	+		
MANASSAS	W4OVH	442.200	+		
MARION	WB3T	443.125	+	T103.5	☺
MARTINSVILLE	KF4RMT	443.825	+	T107.2	
MEADOWS OF DAN	WG4R	444.250	+	T103.5	☺
NASA LANGLEY	KG4NJA	443.650	+	PROP	
NEWPORT	K4TUE	441.950	+	PROP	
NEWPORT NEWS	W4MT	442.900	+	T100.0	☺
NORFOLK	W4VB	442.950	+	131.8	☺
NORFOLK	AD4ZK	444.475	+	T127.3	
NORFOLK	WD4MIZ	444.675	+	T107.2	
OILVILLE	KB4MIC	444.800	+		☺
PATRICK SPRINGS	WG8S	443.175	+		☺
PATRICK SPRINGS	KC3FB	443.750	+	T77.0	
PEARISBURG	K4IJ	444.675	+	PROP	
PEARISBURG	N4AZJ	444.975	+	T103.5	☺
PETERSBURG	K4ARO	442.600	+		
PETERSBURG	WB4KZI	443.825	+		
PORTSMOUTH	W4POX	443.800	+		☺
POUND	KF4VDF	444.850	+	T103.5	☺
POWHATAN	KN4YM	443.100	+		
PULASKI	KE4CIF	442.775	+	T	☺
QUANTICO	N3QEM	447.975	-		
RICHMND/CHLTVL	N4EHJ	444.650	+		☺
RICHMOND	WA4AYB	441.600	+	PROP	
RICHMOND	KC4VDZ	442.300	+	T114.8	☺
RICHMOND	W4RAT	442.550	+	T127.3	☺
RICHMOND	AB4SF	444.850	+	T	☺
ROANOKE	K4ARO	442.600	+	T	
ROANOKE	W7CP	442.700	+	T	☺
ROANOKE	K4NRW	444.175	+	T103.5	
ROANOKE	WB3T	444.325	+	T103.5	☺
ROANOKE/MILL MT	WD4KZK	442.750	+	T107.2	☺
ROANOKE/POOR MT	W4CA	442.500	+		
ROANOKE/POOR MT	KA4IXK	442.850	+		☺
ROANOKE/READ MT	WD4KZK	444.850	+	T107.2	☺
ROANOKE/TINKER M.	WB8BON	444.925	+		☺
SILER	WA4RS	449.175	-		
SLINGS GAP	WD4KZK	444.775	+	T107.2	☺
SOUTH BOSTON	KF4AGO	443.925	+		
SOUTH BOSTON	KF4LWH	444.625	+		
SOUTH HILL	KD4MJO	443.525	+	100.0	☺
SPOTSYLVANIA	N2XHZ	447.875	-		
SPOTSYLVANIA	KD4QNA	442.700	+		
SPOTSYLVANIA	K4MQF	442.850	+		
STAFFORD	K4HR	444.450	+		
STAUNTON	WA4ZBP	444.825	+	T131.8	
STAUNTON/EL KNOB	KE4CKJ	444.100	+	T131.8	☺
STERLING	WA4TXE	442.100	+		
STUARTS DRAFT	KB4OLM	444.050	+		
TYSONS CORNER	KA3RQR	447.025	-		
TYSONS CORNER	KM4FI	443.500	+		
VESTA	KF4RMT	442.725	+	T107.2	
VIENNA	N4KOU	444.850	+		
VIRGINIA BEACH	WA4KXV	444.950	+		☺
WAYNESBORO	N3XA	426.250	+		
WHITETOP MT	KM4X	443.000	+	T103.5	☺
WILLIAMSBURG	N4ARI	443.550	+	T100.0	☺
WILLIAMSBURG	KB4ZIN	444.100	+		☺
WILLIS	W4DUM	443.875	+		
WINCHESTER	W4RKC	448.775	-		
WINCHESTER	W4RKC	448.775	-	146.2	☺
WINCHESTER	W3CSG	442.000	+		
WINTERGREEN	K4CQ	444.550	+	T136.5	☺
WOODBRIDGE	W4IY	444.900	+		
WYTHE/WALKER MT	WB3T	442.000	+	T103.5	☺
WYTHEVILLE	W4VSP	442.175	+	T103.5	☺
WYTHEVILLE	WB3T	442.525	+	103.5	☺

900 MHZ

ALEXANDRIA	WA4CCF	919.600	-		
BEDFRD/APL ORCH	WA1ZMS	921.100	-	T100.0	☺
CULPEPER	KA4DCS	919.400	-		
FANCY GAP	N4JNE	927.4875	-	PROP	☺
LYNCHBRG/TOB MT	K4CQ	921.000	-	T100.0	☺
ROANOKE/POOR MT	WD4KZK	919.500	-	107.2	☺
TYSONS CORNER	K6LEW	919.500	-		
WOODBRIDGE	KA4DCS	919.800	-		

1270 MHZ

BEDFRD/APL ORCH	WA1ZMS	1283.100	-	T100.0	☺
ROANOKE/POOR MT	N4CH	1291.020	-		☺

2.4GHz

BEDFRD/APL ORCH	WA1ZMS	2411.600	+		☺

WEST VIRGINIA

10 METERS

BECKLEY	KA8OTX	29.620	-		
BECKLEY	KE4QOX	29.680	-	T88.5	☺
CHARLESTON	WB8CQV	29.640	-	203.5	
RICHWOOD	WA8YWO	29.660	-	T100.0	

6 METERS

ALDERSON	WV8BD	53.190	-		
BECKLEY	N8FWL	53.170	-	T123.0	☺
BECKLEY	WB8YST	53.590	-	T107.2	☺
CEREDO	KC8PFI	53.870	-		
CHARLESTON	WB8YST	53.630	-	T107.2	☺
FLATWOODS	N8CQQ	53.110	-	PROP	
GASSAWAY	AB8WB	53.210	-	T123.0	
LEWISBURG	KC8LRN	53.930	-	T131.8	☺
MARMT/CHARLSTN	N8PEI	53.750	-	T141.3	
RICHWOOD	WB8YST	53.710	-	T107.2	☺
RICHWOOD	WA8YWO	53.830	-	T100.0	
SHIRLEY	KB8TJH	53.310	-		
SNOWSHOE	KC8CSE	53.330	-	T156.7	

2 METERS

AMBER RIDGE	KB8NJH	147.210	+	T107.2	☺
ANSTED	NM8T	146.790	-	100.0	☺
BECKLEY	KC8AFH	146.700	-	123.0	☺
BECKLEY	N8FWL	147.360	+	T123.0	☺
BECKLEY/BOLT MT	WV8B	145.170	-	T100.0	
BECKLEY/EOC	WV8BD	145.370	-		
BECKLEY/FLAT TOP	WV8BD	146.850	-		
BECKLEY/LAYLAND	N8FCJ	145.310	-	T100.0	
BECKLEY/OAK HILL	N8FWL	145.230	-	T100.0	☺
BERKELEY SPRINGS	KK3L	146.745	-		
BIRCH RIVER	N8FMD	145.270	-	T103.5	☺
BRIDGEPORT	WB8DKM	147.120	+	T	☺
BUCKHANNON	N8FHE	145.410	-		☺
BUCKHANNON	N8ZAR	146.850	-		
BUCKHANNON	N8ZAR	147.060	+	123.0	
CAPON MT	N8YIB	147.435	-		
CHARLESTON	W8GK	145.350	-	91.5	☺
CHARLESTON	WB8YST	145.430	-	T107.2	☺
CHARLESTON	WB8CQV	146.820	-	T192.8	
CHARLESTON	W8XF	147.000	-	91.5	☺
CHARLESTOWN	N8EIV	146.985	-		
CLARKSBURG	N8FMD	146.685	-	T103.5	☺
CLARKSBURG	N8FMD	147.210	+	T103.5	☺
COWEN	KC8ECX	146.835	-	110.9	
DANVILLE	WB8NAM	146.685	-	T	
DAVIS	KE8MR	147.135	+	T103.5	☺
ELKINS	WJ8G	145.230	-	T103.5	☺
ELKINS	KB8BWZ	146.775	-		
FAIRMONT	W8SP	145.350	-	T103.5	
FENWICK	KD8AB	146.940	-		
FLAT TOP/WINTRPL	WV8B	146.625	-	T100.0	
FLATWOODS	N8ZPX	146.655	-	T123.0	☺
FRANKLIN	W3RUA	147.345	+		☺
FROST	N8RV	145.110	-	107.2	☺
GASSAWAY	WB8MZI	146.610	-		☺
#GASSAWAY	AB8WB	147.240	+	UNCOR	
GLENVILLE	N8OYY	145.130	-		☺
GLENVILLE	WB8WV	145.290	-		☺
GRAFTON	WD8LNB	147.375	+	118.8	☺
HARISVL/PENSBRO	WB8NSL	147.300	+	T107.2	
HARPER'SFERRY	KB3BOI	145.350	-		
HINTON	KC8CNL	147.255	+	100.0	☺
HUNTINGTON	WB8FEQ	145.210	-	162.2	
HUNTINGTON	W8VA	146.760	-	T131.8	☺
HUNTINGTON	N8OLC	146.985	-	T131.8	
HUNTINGTON/CHAS	N8HZ	146.640	-		☺
IAEGER	N8SNW	146.655	-	T203.5	
KEYSER	N8RCG	147.390	+	123.0	☺
#LENORE	AI4UK	145.390	-	UNCOR	
LEON	WD8OHX	147.180	+		
LEWISBURG	WB8SPW	146.730	-	T100.0	
LEWISBURG	N4RAG	146.760	-	T131.8	
LEWISBURG	WV8D	147.390	+	T100.0	
LOGAN SOUTH	NV8H	147.195	+	100.0	
LOGAN/SUMERCO	KB8QXP	147.345	+		☺
LOGAN/WRD RK MT	KC8CPK	146.970	-		☺
MADISON	WB8NAM	147.120	+	T	
MARLINTON	N4RAG	147.090	+	131.8	
MARTINSBURG	WA8FSE	145.150	-		
MARTINSBURG	WB8YZV	147.255	+		
MARTINSBURG	K3MAD	147.345	+		
MCMECHEN	N8BQ	146.910	-		☺
MIDDLEBOURNE	WV8TC	147.360	+	T110.9	☺
MOOREFIELD	KD4SZR	145.190	-		
MORGANTOWN	K8LG	145.430	-		
MORGANTOWN	W8CUL	146.760	-		☺
MORGANTOWN	KE8MR	147.075	+	T103.5	☺
MT. ZION	N8LGY	145.450	-	T107.2	☺
MULLENS	KC8IT	147.030	+		
NEW MARTINSVILE	KF8LL	146.985	-		
PARKERSBURG	WV8G	145.490	-		
PARKERSBURG	WC8EC	147.255	+		☺
PARKERSBURG	WD8CYV	147.390	+	T141.3	
PARKERSBURG (OH)	N8NBL	146.970	-		
PARSONS	K8VNQ	145.370	-	T118.8	☺
PHILIPPI	K8VE	145.150	-	103.5	☺
PINEVILLE	W8LG	147.285	+		
PRINCETON	KA8PNC	147.060	-		☺
PRINCETON	WB8NRK	147.225	+	T114.8	☺
PRINCETON/PIPEST	WD8OGY	146.925	-		
RAVENSWOOD	WD8JNU	146.670	-		☺
RED HOUSE	WV8AR	145.410	-	T123.0	☺
RICHWOOD	WB8YJJ	145.190	-	T	
RICHWOOD	AA8TH	147.015	+	T	
RICHWOOD	KB8YDG	147.150	+	T100.0	☺
ROCKPORT	KC8TLG	147.135	+	T123.0	
SALT ROCK	K8SA	145.110	-	T110.9	
SCOTT DEPOT	WV8AR	147.270	+	123.0	☺
SHIRLEY	KB8TJH	145.310	-	T	
SKYLINE	K7SOB	147.360	+	T127.3	
SMITHERS	NM8T	147.075	-		☺
SO. CHARLESTON	WB8CQV	146.880	-	203.5	
SPENCER	KA8AUW	147.105	+	100.0	☺
SPRUCE KNOB	N8HON	147.285	+		☺
ST.MARYS/BENS RG	WB8ECC	147.030	+		
#SUMMERSVILLE	N8YHK	145.470	-	UNCOR	
TERRA ALTA	KD8ZR	147.000	+	T	☺
UNION	W8IFL	145.410	-	T100.0	☺
WEIRTON	W8CWO	146.940	-		☺
WELCH	K8KRS	145.450	-		☺
WESTON	WD8EOM	145.390	-		
WESTON	KA8TCF	147.165	+		
WHEELING	KA8YEZ	145.190	-	156.7	
WHEELING	W8ZQ	146.760	-		☺
WILLIAMSON	WR8M	145.330	-	T100.0	☺

220 MHZ

ANSTED	N8FWL	224.840	-	123.0	☺
BECKLEY	N8FWL	224.240	-	T123.0	☺
BECKLEY - SOUTH	N8FWL	224.740	-	PROP	☺
BECKLEY - WEST	N8FWL	224.540	-	123.0	☺
BECKLEY/OAK HILL	N8FWL	224.340	-	T123.0	☺
BERKELEY SPRINGS	KA3VLG	224.700	-		
CHARLESTON	WB8YST	224.360	-	107.2	☺
CHARLESTON	WS8L	224.700	-	T123.0	☺
CRAIGSVILLE	KC8LRN	224.480	-	T91.5	☺

WEST VIRGINIA REPEATERS CONTINUE

FLAT TOP/WINTRPL	WV8B	224.120	-	100.0	
GREENBANK	KC8CSE	224.560	-	PROP	
HILLSBORO	KC8LRN	224.220	-	T131.8	☺
HINTON/BECKLEY	N8FWL	224.640	-	123.0	☺
#LEON	WD8OHX	223.780	-	UNCOR	
LEWISBURG	N8FWL	224.140	-	PROP	☺
LEWISBURG	KC8LRN	224.800	-	T131.8	☺
SLATY FORK	KC8LRN	224.720	-	91.5	☺
SUTTON	W8COX	224.400	-	T123.0	
WILLIAMSON	WR8M	224.140	-		☺

440 MHZ

ALDERSON/SAM BLK.	N8LVE	444.400	+	T100.0	
BECKLEY	N8FWL	443.050	+	T123.0	☺
BECKLEY	N8LVE	444.125	+	T	
BECKLEY/BOLT	W8LG	443.225	+		
BECKLEY/OAK HILL	WV8B	444.800	+	100.0	☺
BECKLY/OAK HILL	KE4QOX	443.100	+	T107.2	☺
BELINGTON	N8SCS	444.900	+	141.3	☺
BERKELEY SPRINGS	WA3KOK	442.450	+		
BLUEFIELD	WZ8E	443.625	+	100.0	☺
BUCKHANNON	N8ZAR	444.250	+		
CEREDO	KC8PFI	443.600	+		
CHARLESTON	KB8QKM	442.925	+	71.9	
CHARLESTON	WS8L	443.300	+	T123.0	☺
CHARLESTON	WV8AR	444.225	+	T123.0	☺
CHARLESTON	WB8YST	444.350	+	T107.2	☺
CLARKSBURG	N8FMD	444.175	+	T103.5	☺
CRAIGSVILLE	KC8SDN	443.650	+	T123.0	
DANS MT	N8YIB	145.330	+		
DUNMORE	KC8CSE	444.275	+	123.0	
FAIRMONT	W8SP	443.875	+		
FLATWOODS	KC8SDN	443.075	+	123.0	
FLATWOODS	N8ZVK	444.200	+		☺
GASSAWAY	AB8WB	444.675	+	T123.0	
GILBERT	KB8PCW	442.725	+	T	
GLENVILLE	KA8ZXP	444.325	+		
HERNSHAW	WB8CQV	444.700	+	203.5	
HUNTINGTON	WA4GSS	421.250	+		
HUNTINGTON	N8HZ	443.000	+		☺
HUNTINGTON	KB8TGK	443.850	+	T88.5	
HUNTINGTON/CHAS	WB8ZER	444.850	+	T131.8	
HURRICANE	K8OJC	444.075	+		
KEYSER	N8RCG	444.125	+	103.5	☺
LEWISBURG	KF8FO	444.725	+	T103.5	
LOGAN	KE4QOX	444.900	+	T107.2	☺
MORGANTOWN	K8LG	444.700	+		
MORGANTOWN	W8CUL	444.800	+		☺
MULLENS	KC8IT	444.000	+		
OAK HILL	KA8OTX	443.800	+		
PARKERSBURG (OH)	N8ILO	444.100	+		
PENNSBORO	WB8NSL	442.850	+	T103.5	
PRINCETON	KB8UJG	443.700	+	T123.0	☺
RICHWOOD	K8VKB	442.275	+	123.0	
RICHWOOD	KC8SDN	443.375	+	T123.0	
RICHWOOD	KB8YDD	443.475	+		
RICHWOOD	KC8AUY	443.575	+	T	
RICHWOOD	KC8SDN	443.625	+	T123.0	
ROCKPORT	N8LHL	443.350	+	T123.0	
SHIRLEY	KB8TJH	444.425	+	T	
SO. CHARLESTON	WB8CQV	444.950	+	203.5	
ST. ALBANS	K8MHR	443.150	+		
WELCH	N8SNY	443.725	+		☺
WESTON	N8FIP	443.975	+		
WESTON	KA8TCF	444.600	+		
WHEELING	KB8QHO	421.250	+		
WHEELING	KA8YEZ	443.025	+	77.0HZ	
WHEELING	N8EKT	444.975	+		

Limited FULL MEMBERS FROM NON-SERA STATES

10 METERS

CHESTER, PA	W3PS	29.520	+	T156.7	☺

6 METERS

CONCORD, NH	KA1OKQ	53.590	-	71.9	☺

2 METERS

CONCORD, NH	KA1OKQ	147.225	+	T100.0	☺
DELAND, FL	KD4UTV	147.045	+	T103.5	☺
HUNTSVILLE, AL	N4HSV	146.940	-		☺
HUNTSVILLE, AL	W4VM	147.000	+		☺
OCEAN CITY, NJ	W3PS	147.285	+	T146.2	☺
PHILADELPHIA, PA.	W3PS	147.315	+	TT156.7	☺
WINCHESTER, VA	W4RKC	146.820	-		☺

220 MHZ

OCEAN CITY, NJ	W3PS	223.980	-	T156.7	☺
CHESTER, PA	W3PS	224.960	-	T156.7	☺
CONCORD, NH	KA1OKQ	224.800	-	T103.5	☺
EAGLEVILLE, PA	W3PS	224.680	-	T156.7	☺
MILLVILLE, NJ	AA2LD	223.960	-	T156.7	
POTTSTOWN, PA	W3PS	224.400	-	T156.7	☺

440 MHZ

CHESTER, PA	W3PS	443.050	+	T156.7	☺
CONCORD, NH	KA1OKQ	448.775	-	T82.5	☺
HUNTSVILL, AL	W4VM	443.475	+		☺
HUNTSVILLE, AL	W4XE	444.300	+		☺
LINWOOD, PA	W3PS	443.000	+	156.7	☺
MADISON, VA	N8HON	444.400	+		☺
MCKINNEY, TX	KF5TU	442.350	+	T100.0	☺
PEMBROKE, NH	KA1OKQ	444.150	+		☺
PETERBORO, NH	KA1OKQ	443.350	+	T110.9	☺

1270 MHZ

CHESTER, PA	W3PS	1240.000	+		☺

SYMBOLS: ☺ = Full Member SERA T = Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER INDEX LISTINGS BY FREQUENCY

10 METERS

29.6200 / 29.5200			
W3PS	CHESTER, PA	156.7	ZZ
29.6000 / 29.6000			
W4CM	NEWPORT NEWS		VA
29.52 0 / 29.6200			
KF4XH	#MACON		GA
29.5200 / 29.6200			
KQ4XL	MONROE		GA
K4XYZ	BUCKHORN LAKE	103.5	KY
KC4XE	WILKESBORO		NC
WB4IUY	ZEBULON		NC
W4ZJM	MEMPHIS	*#	TN
AJ4D	TELLICO PLAINS	141.3	TN
KA8OTX	BECKLEY		WV
29.5400 / 29.6400			
KK4CZ	LOUISVILLE		KY
KB5MPW	BAY SAINT LOUIS	136.5	MS
KE4QOX	HIGH POINT	103.5	NC
W4CAT	GALLATIN/BNA	107.2	TN
WB4NKM	GREENEVILLE		TN
WB8CQV	CHARLESTON	203.5	WV
29.5600 / 29.6600			
WR4MG	WARNER ROBINS		GA
K4GRW	NEWPORT		NC
N4JEH	ROCKY MOUNT		NC
W4GL	SUMTER		SC
KE4QOX	FANCY GAP	123.0	VA
WA8YWO	RICHWOOD	100.0	WV
29.5800 / 29.6800			
AI8H	CONYERS		GA
N4BZJ	DALTON		GA
KB0Y	VALDOSTA	141.3	GA
KA4UHL	INGLE	146.2	KY
WW4DC	THOMASVILLE	88.5	NC
N8ITF	SPRINGFIELD		TN
KE4QOX	BECKLEY	88.5	WV

6 METERS

52.5500 / 51.5500			
WB4JEH	#CONYERS	151.4	GA
51.2000 / 51.7000			
WA4YNZ	#CUMMING		GA
51.4400 / 51.9400			
KC5BMJ	KINGSLAND	82.5	GA
53.0250 / 52.0250			
WB4LBR	LOUISVILLE		KY
52.5250 / 52.5250			
WW4DC	THOMASVILLE	88.5	NC
52.0100 / 53.0100			
W3LAP	COCHRAN	77.0	GA
WA4YNZ	#ROSWELL		GA
KC4QK	ASHLAND	107.2	KY
N5EKR	ELLISVILLE		MS
KE4QOX	THOMASVILLE	88.5	NC
N4FV	GREENEVILLE	100.0	TN
WA4KOG	MEMPHIS		TN
WA4BGK	NASHVILLE	114.8	TN
KI4ZR	LEXNGTN/ROCK MT.		VA
52.0300 / 53.0300			
W4WTA	AUGUSTA		GA
K4ITL	RALEIGH		NC
KF4FTD	MORRISTOWN		TN
52.0500 / 53.0500			
KC4JNN	BISKEY MT.	100.0	GA
AB5MU	NETTLETON	192.8	MS
N4JEH	ROCKY MOUNT		NC
WA4PXV	SPRUCE PINE	151.4	NC
WA4BGK	GALLATIN	114.8	TN
52.0700 / 53.0700			
WB4AEG	CARTERSVILLE	123.0	GA
KB4PTJ	WILLIAMSBURG	100.0	KY
KD4FWS	MT.AIRY/FANCY GP	100.0	NC
KB4MIC	GUM SPRING	203.5	VA
52.0900 / 53.0900			
KD4DKW	ATL/MARIETTA	151.4	GA
N4ALG	NICHOLASVILLE	103.5	KY
KF4IXW	REELSBORO	162.2	NC
K4NOC	BISHOPVILLE		SC
KD4PBC	SEVIERVILLE		TN
NO4Q	WAVERLY		TN
WB8BON	ROANOKE/POOR MT		VA
52.1100 / 53.1100			
W4GR	LAWRENCEVILLE	82.5	GA
KC4YOT	GASTONIA		NC
KD4BGD	LUMBERTON		NC
K4SER	TARBORO		NC
WD4GYN	OAK RIDGE		TN
N8CQQ	FLATWOODS		WV
52.1300 / 53.1300			
N4BZJ	DALTON		GA
N4EQT	LAWRENCEBURG	107.2	KY
W4FOT	HENDERSONVILLE	100.0	NC
KG4IBW	DRESDEN	107.2	TN
W4HFH	ALEXANDRIA		VA
WB4GJG	DANVILLE(DCC)		VA
52.1500 / 53.1500			
KA5WZY	ATLANTA		GA
K4USC	UNION		SC
WB4IOB	KNXVL/ENG MT		TN
N5YKR	LEXINGTON	100.0	TN
N8ITF	SPRINGFIELD		TN
N4CH	BEDFRD/THAX MT		VA
52.1700 / 53.1700			
WW4DC	THOMASVILLE	88.5	NC
K4BGW	LAFOLLETTE		TN
KE4SFU	RICE		VA
N8FWL	BECKLEY	123.0	WV
52.1900 / 53.1900			
W4BAD	RALEIGH		NC
KN4AS	LITTLE MOUNTAIN	156.7	SC
WA4UCE	COOKEVILLE		TN
WV8BD	ALDERSON		WV
52.2100 / 53.2100			
N1KDO	MARIETTA	79.7	GA
N4QLX	SAURATOWN MT		NC
AD4U	ORANGEBURG		SC
N4WWB	GATE CITY		VA
AB8WB	GASSAWAY	123.0	WV
52.2300 / 53.2300			
KD4BDB	WARM SPRINGS	97.4	GA
KD4JFN	PITTSBORO	107.2	NC
KA4ZKL	GUTHRIE (TN/KY)		TN
KQ4E	MORRISTOWN		TN
52.2500 / 53.2500			
KF4BMG	MARIETTA	79.7	GA
KI4D	ROCK HILL	123.0	SC
WA4YON	#KNOXVILLE		TN
KT4QW	NEWPORT NEWS	100	VA
N4CH	ROANOKE		VA
52.2700 / 53.2700			
KC4CBQ	HIAWASSEE	186.2	GA
KA4UHL	NANCY	100.0	KY
WD4BQW	ASHEVILLE		NC
N5CWH	LEESVILLE	162.2	SC
WD4KZK	ROCKY MT/FERRUM	107.2	VA
52.2900 / 53.2900			
K4PLM	#PINE LOG MT.	198.2	GA
KF4UAQ	LOUISVILLE		KY
KF4SXO	CHESTER		SC
WA4CQK	FANCY GAP	100.0	VA
52.3100 / 53.3100			
AB4JJ	WEST JEFFERSON	100.0	NC
K4SER	WILLIAMSTON		NC
KG4BZN	WALTERBORO	123.0	SC
KB8TJH	SHIRLEY		WV
52.3300 / 53.3300			
KD4FVI	CRAWFORD	88.5	GA
AD4CC	HIGHLAND HEIGHTS	123.0	KY
W4TLP	CLINTON		NC
K4DHT	MOUNTAIN CITY	100.0	TN
KB4IDC	MT. JULIET	100.0	TN
KC8CSE	SNOWSHOE	156.7	WV
52.3500 / 53.3500			
WR4AMS	DORTON		KY
WR4BEG	SOPHIA/RANDLEMAN		NC
K4VCM	CHATTANOOGA		TN
52.3700 / 53.3700			
W4ZO	MONROE	100.0	NC
KD4MYE	YOUNGSVILLE		NC
KC4PDQ	MARYVILLE		TN
N8RIG	BLUEFIELD		VA
52.3900 / 53.3900			
KA4UFM	DECATUR		GA
KF4XH	#MACON		GA
KE4RKF	WAYNESBURG	100.0	KY
AB4JJ	WEST JEFFERSON	100.0	NC
WB3R	AMELIA		VA
52.4100 / 53.4100			
WA1YYN	EFLAND	107.2	NC
KO4MZ	GVL/CSR'S HEAD	131.8	SC
52.4300 / 53.4300			
KR4OL	#MACON		GA
N7BBW	LOUISVILLE	151.4	KY
AD4DN	WILMINGTON	88.5	NC
K4GX	KINGSPORT		TN
KD4SUU	CHESTERFIELD		VA
N4GBO	VESTA	107.2	VA
52.4500 / 53.4500			
WD4OVN	#PINE LOG MT		GA
KC5PIA	LAUREL		MS
W4UNC	CHAPEL HILL	107.2	NC
NQ4Y	MONTEAGLE MTN	114.8	TN
K8GP	BULLRUN		VA
52.4700 / 53.4700			
W5PFC	JACKSON	77.0	MS
KB4REC	KNOXVILLE		TN
KE4JYN	PEARISBURG	107.2	VA
52.5500 / 53.5500			
WB4JEH	CONYERS	151.4	GA
N4OQJ	KNOXVILLE	100.0	TN
K4RDK	MEMPHIS		TN
52.5700 / 53.5700			
KD4AOZ	WATKINSVILLE	123.0	GA
KE4LGL	LEXINGTON		KY
KE4KEH	LYNCHBURG	103.5	VA
52.5900 / 53.5900			
KF4QDS	KVILLE/HIPOINT	103.5	NC
KF4IWA	MOUNTAIN REST		SC
WB8YST	BECKLEY	107.2	WV
KA1OKQ	CONCORD, NH	71.9	ZZ
52.6300 / 53.6300			
AB4JJ	MT MITCHELL	100.0	NC
WB8YST	CHARLESTON	107.2	WV
51.1400 / 53.6500			
KB5MPW	BAY SAINT LOUIS	136.5	MS
52.6500 / 53.6500			
KB4YFV	WHITE TOP MTN		VA
51.2000 / 53.7100			
KE4OVN	LANEVIEW	107.2	TN
52.7100 / 53.7100			
KD4YWB	ROBBINSVILLE	167.9	NC
WB8YST	RICHWOOD	107.2	WV
51.2200 / 53.7300			
K4YC	IVEY/MACON	88.5	GA
52.7300 / 53.7300			
K4XYZ	BUCKHORN LAKE	100.0	KY
WD4OAR	GEORGETOWN	192.8	TN
52.7500 / 53.7500			
W4YWH	HIGHLAND HEIGHTS	123.0	KY
WA4PXV	AIR BELLOWS GAP		NC
W4BAD	DURHAM		NC
K4GX	#ROGERSVILLE	114.8	TN
N8PEI	MARMT/CHARLSTN	141.3	WV
52.7700 / 53.7700			
W4GL	SUMTER		SC
W4BBB	KNOXVILLE/RACK	100.0	TN
N4TZE	BEDFORD/THNDR	173.8	VA
52.7900 / 53.7900			
WR4MG	WARNER ROBINS		GA
WA4NC	BOONE	100.0	NC
52.8100 / 53.8100			
WD4KNE	#STANTON		KY
W4EBM	#FAYETTEVILLE		NC
52.8500 / 53.8500			
K4TDO	HAZARD		KY
52.8700 / 53.8700			
KC8PFI	CEREDO		WV

PLEASE NOTE

The Repeater Journal lists subtones used on repeaters ONLY if they are requested to be listed by the sponsor or owner. The listing of a subtone on any repeater does not in any way indicate it being a "closed" repeater. In most cases, the tones are used to eliminate noise problems and are listed at the owners request for users convenience.

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

52.8900 / 53.8900			
KB0Y	LAKE PARK	141.3	GA
WB4HJG	LULA	82.5	GA
WA4OHX	HAMPTON		VA
52.9100 / 53.9100			
KE4ZJT	LONDON	100.0	KY
52.9300 / 53.9300			
W4GMM	MEMPHIS	107.2	TN
KC8LRN	LEWISBURG	131.8	WV
52.9500 / 53.9500			
WB4WSB	LAGRANGE		KY
52.9700 / 53.9700			
N4DAJ	MT. AIRY	100.0	NC

2 METERS

144.5100 / 145.1100			
KK4HL	AUGUSTA		GA
N4MXC	COCHRAN	107.2	GA
KR4HV	DOUGLASVILLE	88.5	GA
KC4UPE	LEESBURG	192.8	KY
KD5AXY	FLORENCE		MS
W5WA	VANCLEAVE	123.0	MS
W4PCN	KILL DEVIL HILLS	131.8	NC
N4GSM	ROBBINSVILLE	151.4	NC
KD4MYE	YOUNGSVILLE	88.5	NC
WZ4SC	FORT MILL		SC
W4GS	MYR BCH/CONWAY		SC
KK4TD	COOKEVILLE		TN
WM4T	GRAY		TN
KF4OID	MOSCOW	107.2	TN
N4ARK	NASHVL/FAIRVIEW	151.4	TN
K4YPE	RICHMOND		VA
N8RV	FROST	107.2	WV
K8SA	SALT ROCK	110.9	WV
144.5300 / 145.1300			
K4SEX	NEWNAN	156.7	GA
WR4SG	VALDOSTA	141.3	GA
N4UL	LOUISVILLE AREA	151.4	KY
KJ4VF	MOREHEAD	100.0	KY
WB4YNF	AHOSKIE		NC
N4VL	MT. AIRY	103.5	NC
W4RNC	RALEIGH	88.5	NC
W4JAK	GREENWOOD		SC
K4JR	SUMTER		SC
K4CMY	CHATTANOOGA		TN
KA4OAK	LAFOLLETTE		TN
KF4ATY	MEMPHIS	107.2	TN
KC4WPS	NASHVILLE	114.8	TN
N8OYY	GLENVILLE		WV
144.5500 / 145.1500			
K4TWG	BACONTON		GA
W4AQL	GA TECH	167.9	GA
K4YC	IVEY/MACON	77.0	GA
KG4CCW	LOUISVILLE	141.3	KY
KY4JW	MONTICELLO	100.0	KY
AD4BI	PIKEVILLE	107.2	KY
KE5LT	PICAYUNE		MS
K2IMO	ELM CITY	88.5	NC
W4GSO	GREENSBORO	100.0	NC
K4OBX	HATTERAS ISLAND	131.8	NC
W4LBT	#LUMBERTON		NC
N4LWY	SUMMERTON		SC
K4USC	UNION		SC
KG4FZR	ATHENS	141.3	TN
W4XS	FRANKLIN		TN
K0JXI	MEMPHIS		TN
K4ARO	GREENBAY		VA
N3ZE	RADFORD/RINER		VA
K8VE	PHILIPPI	103.5	WV
144.5700 / 145.1700			
WA4DIW	JONESBORO		GA
W8PRH	HALLS GAP		KY
W5JWX	RAYMOND	77.0	MS
K4CCR	ANDSN MT/DENVER	88.5	NC
N4NCK	OXFORD		NC
N4JDW	WILMINGTON	88.5	NC
KY4S	AIKEN		SC
K4NOC	BISHOPVILLE	123.0	SC
WF4Q	BRUCETON	107.2	TN
WB4GBI	KNOXVILLE		TN
WB4LHO	MURFREESBORO		TN
WA4ZUA	NORFOLK	136.5	VA
WV8B	BECKLEY/BOLT MT	100.0	WV
144.5900 / 145.1900			
W4CBA	GAINESVILLE	131.8	GA
WA4EQL	JESUP		GA
WB4ULJ	PINE MT/HAMILTON		GA
KB4SQI	SALYERSVILLE	127.3	KY
K5YD	BOONEVILLE	110.9	MS
W5CJR	HATTIESBURG	136.5	MS
KA4SQN	JACKSONVILLE		NC
WA4BVW	MT MITCHELL		NC
K4GWH	RALEIGH	156.7	NC
N4OTT	CARTHAGE		TN
KD4XV	JASPER	127.3	TN
WB3R	AMELIA		VA
WB8YJJ	RICHWOOD		WV
KA8YEZ	WHEELING	156.7	WV
144.6100 / 145.2100			
KC4RRO	EASTMAN		GA
WA4EPK	FAYETTEVILLE	131.8	GA
W8PRH	LEXINGTN/GRGTWN		KY
KB5IKR	MENDENHALL	100.0	MS
K4OLC	HIGH PEAK MTN	94.8	NC
WB4TQD	TRENTON		NC
KG4LAP	SMOAKS		SC
W2GLJ	GERMANTOWN		TN
W4BBB	KNOXVILLE/RACK	100.0	TN
N4ARK	NASHVILLE		TN
K4QZJ	HIGH KNOB MT		VA
N2EDE	ROANOKE	107.2	VA
WB8FEQ	HUNTINGTON	162.2	WV
144.6300 / 145.2300			
WB4JEH	CONYERS	151.4	GA
WR4SG	CORDELE	141.3	GA
W4DRC	DALTON		GA
K4BR	WAYNESBORO		GA
W8PRH	LOUISVILLE		KY
W4KBL	PRINCETON	103.5	KY
KG4GQC	WEST LIBERTY	107.2	KY
KC5VZI	#NEW ALBANY		MS
N4VBH	BEULAVILLE		NC
W4UNC	CHAPEL HILL	107.2	NC
W4BFB	CHARLOTTE		NC
KG4AQH	GREELEYVILLE		SC
W4CAT	LAVERNE		TN
KB4KIE	MAYNARDVILLE		TN
KE4NTL	RIPLEY	100.0	TN
N4CH	BEDFORD		VA
W4MT	NEWPORT NEWS	100.0	VA
N8FWL	BECKLEY/OAK HILL	100.0	WV
WJ8G	ELKINS	103.5	WV
144.6500 / 145.2500			
N4YYD	CHATSWORTH	71.9	GA
K4YC	IVEY		GA
AD4YJ	LEXINGTON	110.9	KY
W4GG	GREENSBORO	88.5	NC
WA4USN	CHARLESTON	123.0	SC
WA4UKX	SIMPSONVILLE	123.0	SC
KT4WS	DOVER	100.0	TN
N4WXS	ERWIN/PINNACLE		TN
N4ER	MEMPHIS	146.2	TN
KD8XK	BLUEFIELD	100.0	VA
KQ4RH	MONTPELIER		VA
144.7500 / 145.2500			
KC4QLP	ELIZABETH CITY	131.8	NC
144.6700 / 145.2700			
KT4X	SANDERSVILLE	77.0	GA
K4AIS	WALESKA/PNLG MT	100.0	GA
N4KJU	PAINTSVILLE		KY
KD4BOH	ROCKPORT	77.0	KY
N5NBG	WALLS	162.2	MS
KB5DZJ	WIGGINS	136.5	MS
K4ITL	ASHEBORO	82.5	NC
K4ROK	FARMVILLE	131.8	NC
WA4KNI	HENDSVL/BERWLW		NC
N7GZT	COLUMBIA	162.2	SC
W4SRX	MONTEREY	123.0	TN
KD4CLA	PIGEON FORGE	100.0	TN
N8FMD	BIRCH RIVER	103.5	WV
144.6900 / 145.2900			
W4IBM	ATLANTA	88.5	GA
W4DV	AUGUSTA	100.0	GA
WR4MG	PERRY	107.2	GA
AC2DC	LOUISVILLE	151.4	KY
N4VOS	STANTON		KY
WJ5L	VICKSBURG		MS
W4BFB	CHARLOTTE		NC
WN3X	COINJOCK	131.8	NC
NC4AR	HIGH POINT	88.5	NC
WA4WPD	NASHVILLE	107.2	NC
W4GS	MYRTLE BEACH	85.4	SC
KU4ZS	PUMPKINTOWN	123.0	SC
W4AM	CHATTANOOGA	118.8	TN
KF4ZQA	ELIZTON/HOLS MT	100.0	TN
K4DXC	RIDGETOP	114.8	TN
WF4Q	SHILOH	107.2	TN
N4UTN	RUSTBURG		VA
WB8WV	GLENVILLE		WV
144.7100 / 145.3100			
W4FIZ	COLUMBUS	123.0	GA
KB4JF	NASHVILLE	141.3	GA
WA4JDR	STOCKBRIDGE		GA
KC4KZT	DAVID		KY
WB5GOJ	CHATAWA		MS
KC4WPM	BAKERSVILLE		NC
N4LEX	LEXINGTON	88.5	NC
K4ITL	ROSEBORO		NC
W4IAR	BEAUFORT		SC
W4CHR	CHESTER		SC
WA4PNI	ATHENS	141.3	TN
KF4SC	JACKSON		TN
KC4ECD	LAFAYETTE	151.4	TN
KD4KWP	CHESTERFIELD		VA
N8FCJ	BECKLEY/LAYLAND	100.0	WV
KB8TJH	SHIRLEY		WV
144.7300 / 145.3300			
KF4ODQ	EASTMAN	77.0	GA
WA4OGE	JONESBORO		GA
N4XGI	ST SIMONS ISLAND	131.8	GA
KF4INN	VERSAILLES		KY
K5DMC	KILN		MS
KI4RK	EMERALD ISLE	88.5	NC
KI4RK	GOLDSBORO	100.0	NC
N4VRD	MOUNT AIRY	100.0	NC
KF4JVI	TRYON		NC
WA4DFP	BAMBERG		SC
WT4E	COLLIERVILLE	107.2	TN
WD4DBJ	CUMBERLAND CITY		TN
WA4TEM	KNOXVILLE		TN
KE4ZBH	FARMVILLE		VA
W4VB	NORFOLK		VA
WR8M	WILLIAMSON	100.0	WV
144.7500 / 145.3500			
W4DOC	ATLANTA	146.2	GA
W4GTA	LOOKOUT MT	100.0	GA
KD4MFS	OCILLA		GA
AI4HB	RADCLIFF	173.8	KY
N4DRL	BYHALIA		MS
N5ZMZ	UTICA		MS
WA4AOS	CHARLOTTE		NC
WD4JPQ	GREENVILLE	131.8	NC
KE4OVN	GREENFIELD	107.2	TN
WD4JYD	NOLENSVILLE	114.8	TN
KB4PNG	ONEIDA	77.0	TN
N4AZJ	BLAND	103.5	VA
KF4LWH	SOUTH BOSTON		VA
W8GK	CHARLESTON	91.5	WV
W8SP	FAIRMONT	103.5	WV
144.7700 / 145.3700			
AA4UA	AUGUSTA		GA
KB4IZF	JASPER	100.0	GA
W4BKM	MACON	88.5	GA
KE4YVD	RICHMOND	192.8	KY
K5IJX	HATTIESBURG	136.5	MS
N5PYQ	SOUTHAVEN	107.2	MS
N4NCK	BUTNER		NC
W4HF	N. WILKESBORO	94.8	NC
K4PPD	SHALLOTTE		NC
KB4KIE	KNOXVILLE		TN
WR3S	NASHVILLE		TN
W4HZL	GLOUCESTER		VA
KC4RBA	LYNCHBURG	186.2	VA
WV8BD	BECKLEY/EOC		WV
K8VNQ	PARSONS	118.8	WV
144.7900 / 145.3900			
K4HYB	GRIFFIN/CENAR	88.5	GA
N4EQT	LAWRENCEBURG	107.2	KY
KC8FKP	SO. PORTSMOUTH	136.5	KY
KB5KGE	JACKSON		MS
NC4UC	MONROE/UCARS	94.8	NC
WB4TQD	RALEIGH	82.5	NC
KG4BZN	WALTERBORO		SC
W4AM	CHATTANOOGA		TN
W4WC	GREENEVILLE		TN
KE4EUE	COLONIAL HEIGHTS		VA
W4POX	PORTSMOUTH	100.0	VA
K4ARO	ROANOKE/POOR MT	107.2	VA
AI4UK	#LENORE		WV
WD8EOM	WESTON		WV
144.8100 / 145.4100			
W4PME	ATLANTA/BELL	100.0	GA
K4KNS	AUGUSTA		GA
WA4MXO	JACKSON		KY
KK4CZ	LOUISVILLE	151.4	KY
N4XO	CHINA GROVE	136.5	NC
K4SER	WILLIAMSTON	131.8	NC
WA4USN	CHARLESTON AR		SC
N4VIH	DOVER	123.0	TN
K4MFD	GREENEVILLE	173.8	TN
K5FE	MEMPHIS	107.2	TN
NQ4Y	MONTEAGLE MTN	114.8	TN
KF4ADM	WILLIAMSBURG	127.3	VA
N8FHE	BUCKHANNON		WV
WV8AR	RED HOUSE	123.0	WV
W8IFL	UNION	100.0	WV
144.8300 / 145.4300			
K4LCI	ATLANTA		GA
WA9RNZ	JESUP	118.8	GA
AA4RI	MACON		GA
AC4RS	ELKTON	77.0	KY
KX5E	GLOSTER	136.5	MS
KU4W	RAEFORD	100.0	NC
K4QFQ	SPARTA/GREEN MT		NC
K4JR	SUMTER	156.7	SC
WF4Q	BROWNSVILLE	107.2	TN
WA4UCE	COOKEVILLE		TN
WB4YLC	KNOXVILLE		TN
AD4OV	COEBURN	103.5	VA
W4SQT	RICHMOND		VA
WB8YST	CHARLESTON	107.2	WV
K8LG	MORGANTOWN		WV
144.8500 / 145.4500			
W4BOC	DECATUR		GA
KG4FEJ	ROCKFIELD	136.5	KY
WX5P	FULTON		MS
W5PPB	SHARON	77.0	MS
WR4AGC	DURHAM		NC
WD4LCF	GASTONIA		NC
K4GRW	NEWPORT		NC
WD4EOG	CLEMSON UNIV		SC
W4ZKM	SAVANNAH RIVER	123.0	SC
K4SIR	BENTON		TN
WA4KOG	MEMPHIS		TN
KQ4E	MORRISTOWN		TN
KF4GHD	#MT PLEASANT	127.3	TN
AA4HQ	SALUDA		VA
KD4KAU	STAUNTON	131.8	VA
N8LGY	MT. ZION	107.2	WV
K8KRS	WELCH		WV
144.8700 / 145.4700			
KD4HMH	BONAIRE		GA
KG4OGC	RICEBORO		GA
N4CLA	SWEAT MT/MARIETT		GA
WB4GGH	BARDSTWN/NELSN	151.4	KY
K4NLT	HUEYSVILLE	79.7	KY
KF4BRO	MAYSVILLE	107.2	KY
WB5VYH	ABBEVILLE	107.2	MS
W4OIX	KINSTON		NC
W4NC	SAURATOWN MT	100.0	NC
WB4BLI	GAFFNEY	141.3	SC
KI4CB	MYR BCH/CONWAY		SC
WB4GBI	KNOXVILLE		TN
KF4RBR	MOUNTAIN CITY	103.5	TN
N4ARK	NASHVILLE		TN
N4ZCM	SOUTH HILL		VA
N8YHK	#SUMMERSVILLE	100.0	WV
144.8900 / 145.4900			
W4DV	AUGUSTA		GA
KA4WUJ	CORDELE	103.5	GA
W4LMA	MARIETTA	88.5	GA
W4KVK	HENDERSON		KY
WB4CWF	LEXINGTON		KY
N5VGK	TUPELO		MS
NT4K	FRANKLIN		NC
WB4IKY	GIBSONVILLE	107.2	NC
KF4LUC	HICKORY	94.8	NC
W4BWC	RALEIGH	82.5	NC
W4APE	CHERAW		SC
WA4KOG	BRADEN		TN
WB4LHO	MCMINVL/SHT MT		TN
K4CQ	AMHERST	136.5	VA
W8MOP	BLUEFIELD		VA
WA4OHX	HAMPTON		VA
WV8G	PARKERSBURG		WV
146.9950 / 146.3950			
WB9SHH	#MONTECELLO	88.5	KY
146.0100 / 146.6100			
W4CVY	COLUMBUS		GA
WB4JEH	CONYERS	151.4	GA
WD4KWV	CORBIN		KY
KC4FRA	MADISONVILLE		KY
W5LAR	LAUREL		MS
W4EWN	NEW BERN	100.0	NC
WB4TOP	RALEIGH	131.8	NC
KF4QDS	THOMASVILLE	123.0	NC
KC4WIF	ELLOREE	118.8	SC
W4NYK	GRNVLE/CSRS HD		SC
W4AM	CHATTANOOGA		TN
WA4PCD	NASHVILLE		TN
K4JP	ABINGDN/BRMLY MT		VA
W4CAR	CHESAPEAKE		VA
W4WWQ	LYNCHBURG	136.5	VA
WB8MZI	GASSAWAY		WV
146.0250 / 146.6250			
W4ZT	ATL/UNION CITY	100.0	GA
N4UJT	ELBERTON		GA
K4HAO	VIDALIA		GA
K4ULW	WEBSTER	151.4	KY
KC5ULN	COLUMBUS		MS
KE5WO	PORT GIBSON		MS
K4USB	BUXTON	131.8	NC
KI4RR	LAURINBURG		NC
KF4SXO	CHESTER		SC
WB4VXX	CORNERSVILLE	107.2	TN
WB4GBI	KNOXVILLE	100.0	TN
W4UTM	MARTIN	107.2	TN
K4SVA	JARRATT I-95	100.0	VA
WV8B	FLAT TOP/WINTRPL	100.0	WV
146.0400 / 146.6400			
WB4QGR	#ATLANTA		GA
W4FWD	CARROLLTON	131.8	GA
AE4PO	WAYCROSS	141.3	GA
WA4UXJ	CANE VALLEY		KY
K5XU	MADISON		MS
WB5NAY	MOOREVILLE		MS
WB4YAO	HENDERSONVILLE	91.5	NC
W4DW	RALEIGH		NC
W4NC	WINSTON-SALEM	100.0	NC
W4GL	SUMTER		SC
KA4QYI	HARRIMAN	100.0	TN
WB4KQQ	MEMPHIS		TN
AF4TZ	NASHVILLE	114.8	TN
W4WIC	FINCASTLE		VA
N4QLF	MARION	103.5	VA
WB4QEY	RICHMOND		VA
N8HZ	HUNTINGTON/CHAS		WV
146.0550 / 146.6550			
N4NFP	ATLANTA/MARIETTA	151.4	GA
W4WSM	BOWLING GREEN-SO		KY
WD4DZC	DANVILLE		KY
K4CUW	PADUCAH		KY
KC5ZZH	MERIDIAN		MS
K4CEB	CONCORD/KANNAP.		NC
WA4VTX	ELIZABETH CITY	131.8	NC
KD4KOJ	BEAUFORT		SC
N5CWH	LEESVILLE	162.2	SC
KI4BXI	BROWNSVILLE		TN
W4RDM	LAWRENCEBURG		TN
W4OLB	MARYVILLE/ALCOA		TN
WA4ISI	ALTAVISTA		VA
N8ZPX	FLATWOODS	123.0	WV
N8SNW	IAEGER	203.5	WV
146.0700 / 146.6700			
W4ABP	GAINESVILLE	131.8	GA
KF4SJO	HAZARD		KY
W4KBL	PRINCETON		KY
W5UBG	NEW ALBANY		MS
KB5ZCX	PURVIS		MS
K4FHB	BURLINGTON		NC
K4OI	FOREST CITY	114.8	NC
AD4DN	WILMINGTON	88.5	NC
AD4U	ST. MATTHEWS	156.7	SC
W4UD	BRISTOL		TN
K4BGW	LAFOLLETTE		TN
AF4TZ	NASHVILLE	114.8	TN
W4CBM	DUBLIN		VA
KG4NJA	NASA LANGLEY	173.8	VA
KD4DDI	PAGECO		VA
K4RC	WILLIAMSBURG		VA
WD8JNU	RAVENSWOOD		WV
146.0850 / 146.6850			
K4NGA	ADAIRSVILLE		GA
WA4EPK	DARIEN		GA
K4KZY	FAYETTEVILLE		GA
KF4NTQ	GEORGETOWN	107.2	KY
N4WJS	OWENSBORO	110.9	KY
W5KHB	NATCHEZ	100.0	MS
W4NBR	GRIFTON	88.5	NC
W4SNC	STATESVILLE		NC
K4USC	UNION		SC
KF4ARH	WALLAND	88.5	TN
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
N8FMD	CLARKSBURG	103.5	WV
WB8NAM	DANVILLE		WV
146.1000 / 146.7000			
W4MM	ALBANY		GA
K4UFO	JASPER		GA
KD4BWK	LAGRANGE	141.3	GA
WB4DOJ	MILLEDGEVILLE	67.0	GA
K4NLX	SAVANNAH	100	GA

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

KY4KY	BROOKS	151.4	KY
KD4DZE	GRAYSON	107.2	KY
WB4FUR	BAY ST. LOUIS		MS
W5LV	GRENADA		MS
W5FQ	MERIDIAN		MS
N4CID	DUNN		NC
W4PAX	#LANCASTER		SC
WT4F	PICKENS	107.2	SC
KF4BVQ	ANDERSON CTY	100.0	TN
W4UOT	MANCHESTER	114.8	TN
WB4MMI	RAMER	107.2	TN
WA4YGM	UNION CITY		TN
K4AU	DANVILE/WHT OAK	107.2	VA
KF8PT	NORFOLK		VA
KD4WWF	STAUNTON	131.8	VA
KC8AFH	BECKLEY	123.0	WV
146.1100 / 146.7100			
KF4FO	HOPKINSVILLE		KY
146.1150 / 146.7150			
K4NVG	LAVONIA	100.0	GA
W4ABZ	RINGGOLD	67.0	GA
KF4OFT	BEREA	100.0	KY
KA5TQY	GREENWOOD		MS
KD4JFN	HAW RIVER	107.2	NC
N4GGN	MILLERS CREEK	94.8	NC
WB4NEP	COLUMBIA		SC
KB4JUB	SALTILLO		TN
W9KIC	BLACKSBURG		VA
W4TTL	WALKERTON		VA
146.1300 / 146.7300			
W4MM	ALBANY		GA
KD4NC	ATLANTA/SWEAT MT		GA
K4TVE	BRUNSWICK		GA
WR4DH	MACON	100.0	GA
AC4AO	LEXINGTON		KY
AA4NI	#NEBO		KY
KC5IF	BILOXI		MS
KD5GVU	STARKVILLE	210.7	MS
KC5TGT	UTICA	77.0	MS
W4BWC	RALEIGH	82.5	NC
W4EXU	SALISBURY	94.8	NC
N4ILM	WILMINGTON		NC
K4NAB	N. AUGUSTA		SC
WA4UKX	SIMPSONVILLE	100.0	SC
WB4IOB	KNXVL/ENG MT		TN
KE4LFZ	MEMPHIS	107.2	TN
K4EHL	WATERTOWN	100.0	TN
W4QR	HAMPTON		VA
WB8SPW	LEWISBURG	100.0	WV
146.1450 / 146.7450			
KD4QHB	ATHENS		GA
K4WOC	CALHOUN	100.0	GA
AF4VH	SPRINGFIELD	97.4	GA
WA4TTC	GREENVILLE		KY
KD4RTR	MILLARD	141.3	KY
KC5VZI	#NEW ALBANY		MS
KC4QPR	MORGANTON	94.8	NC
N4WFU	ROANOKE RAPIDS	131.8	NC
W4PDE	DILLON/PEE DEE		SC
W4MV	DYERSBURG		TN
KC4WHL	HARRIMAN		TN
AA4YQ	WARTBURG		TN
K4ROA	ROANOKE/POOR MT	107.2	VA
146.1600 / 146.7600			
W4RRG	LOOKOUT MT.	67.0	GA
W4BOC	STONE MT	107.2	GA
WR4MG	UNADILLA	107.2	GA
KF4BJM	VALDOSTA	141.3	GA
K4KJQ	LEXINGTON		KY
K4CUW	PADUCAH		KY
W5AXQ	JACKSON		MS
WA4BVW	ASHVL/MT PISGAH		NC
K4GWH	GREENSBORO	156.7	NC
KB2XI	SWANSBORO		NC
WB4THL	WILSON	131.8	NC
K4ESG	CHARLESTON		SC
K4JP	BRSTL/HOLSTN MT		TN
WA4PCD	NASHVILLE	114.8	TN
WA4TFZ	CHARLOTTESVILLE	151.4	VA
KB4ZIN	WILLIAMSBURG		VA
W8VA	HUNTINGTON	131.8	WV
N4RAG	LEWISBURG	131.8	WV
W8CUL	MORGANTOWN		WV
W8ZQ	WHEELING		WV
146.1750 / 146.7750			
N4NEQ	MARIETTA	151.4	GA
KB4NA	WRENS		GA
KA4WZX	MIDDLESBORO		KY
KJ4OG	TOMPKINSVILLE		KY
AE4SK	VANCEBURG		KY
KD5YTB	CLEVELAND	107.2	MS
K5PN	HATTIESBURG	136.5	MS
W4ZU	HOLDEN BEACH	100.0	NC
KD4RAA	RALEIGH	88.5	NC
KG4WAD	SALISBURY	94.8	NC
KF4GHC	FORT JACKSON	156.7	SC
WF4Q	JACKSON	107.2	TN
W4JVO	PULASKI/MUSIC MT		TN
AG4AN	FOREST	131.8	VA
WB3T	WYTHEVILLE	107.2	VA
KB8BWZ	ELKINS		WV
146.1900 / 146.7900			
KD4GEY	FOLKSTON		GA
WD4KOW	MOULTRIE		GA
K4SEX	NEWNAN		GA
K4VYX	SWAINSBORO		GA
W4YWH	HIGHLAND HEIGHTS	123.0	KY
KA4UHL	NANCY	100.0	KY
K5TYP	BILOXI		MS
W4TLP	CLINTON		NC
KG4ASL	SAURATOWN MT	107.2	NC
N4AW	ANDERSON/SAS MT		SC
WA4USN	CHARLESTON		SC
W4AM	CHATTANOOGA		TN
W4ABR	JOHNSON CITY		TN
W4KIB	MEMPHIS	107.2	TN
W4SQE	NASHVILLE	100.0	TN
N4SD	CHESAPEAKE		VA
NM8T	ANSTED	100.0	WV
146.2050 / 146.8050			
K4PDQ	MACON	77.0	GA
KA4NNE	GUTHRIE	100.0	KY
W8PRH	HAZARD		KY
KF5C	STARKVILLE	192.8	MS
K5IMT	#VICKSBURG		MS
K4GNC	GASTONIA/CRWDR		NC
W4DCG	ROCKY MOUNT	118.8	NC
KF4ATU	ORANGEBURG	156.7	SC
KF4TNP	CORNERSVILLE	114.8	TN
W4EYJ	CROSSVILLE	131.8	TN
WB4MMI	SELMER	107.2	TN
WA4HTI	COVINGTON		VA
W4TTL	MECHANICSVILLE		VA
147.4050 / 146.8050			
KC4AQS	JASPER	100.0	GA
W4DJB	CANTON		NC
KD4TC	BIG "A" MTN	103.5	VA
146.2200 / 146.8200			
W4MM	ALBANY		GA
W4DOC	ATLANTA	146.2	GA
K4HVK	KIBBEE		GA
KF4DKJ	DRAKESBORO		KY
W4CMR	IRVINE	192.8	KY
K5HYE	MAGEE	100.0	MS
WB4PZA	WILKESBORO	94.8	NC
K4GMP	WILMINGTON	88.5	NC
KT4NZ	CAMDEN	131.8	SC
W4NYK	GRNVLE/PARIS MT		SC
WB4OAH	LAKE CITY		TN
W4BS	MEMPHIS		TN
KB4PNG	#ONEIDA		TN
W4UOT	WINCHESTER		TN
W4CAR	CHESAPEAKE	162.2	VA
N4WWB	GATE CITY		VA
WB8CQV	CHARLESTON	192.8	WV
W4RKC	WINCHESTER, VA		ZZ
146.2350 / 146.8350			
KC4GSS	THOMSON		GA
KF4AWA	SALVISA	192.8	KY
WB4PLA	ASHEVILLE		NC
KB4TOH	COLUMBIA	131.8	NC
W4USH	WADESBORO		NC
KT4YW	CHARLESTON		SC
KB4YTM	HUNTINGDON		TN
W4LYR	WATERTOWN	100.0	TN
KK4EH	GRUNDY/BIG A MT		VA
W4GSF	KILMARNOCK	173.8	VA
N4UTN	RUSTBURG/LONG MT	173.8	VA
KC8ECX	COWEN	110.9	WV
147.4350 / 146.8350			
N4KHQ	DAHLONEGA	100.0	GA
W4IDR	#HOPE MILLS		NC
KB4BPV	THOMASVILLE	88.5	NC
146.2500 / 146.8500			
W4RPO	DALLAS		GA
K4SDJ	SAVANNAH		GA
WA4ORT	WARNER ROBINS		GA
KM4IV	PIKEVILLE		KY
K5JMD	BUDE	103.5	MS
WB5MFK	IUKA		MS
W5LWC	KOSCIUSKO		MS
K4CYP	GOLDSBORO		NC
WA4DSZ	HICKORY/BRT. MT		NC
N4IV	REIDSVILLE	103.5	NC
W4ULH	FLORENCE		SC
WA4KJH	GTLBG/COVE MTN	127.3	TN
WA4KOG	MEMPHIS		TN
W4AY	NASHVILLE	114.8	TN
W4POX	PORTSMOUTH		VA
WA4ZBP	STAUNTON	131.8	VA
WV8BD	BECKLEY/FLAT TOP		WV
N8ZAR	BUCKHANNON		WV
146.2650 / 146.8650			
N4ZON	JESUP	123.0	GA
WB4DKY	MADISON	179.9	GA
AD4MU	OWENSBORO		KY
KG4AEU	RICHMOND	192.8	KY
KD4HLH	LAURENS	107.2	SC
KF4VGX	LITTLE RIVER		SC
W8EYU	#CROSSVILLE		TN
KN4KP	TRENTON		TN
KF4VDF	NORTON	103.5	VA
147.4650 / 146.8650			
N5DWU	ELLISVILLE	136.5	MS
N4WCO	MURPHY/STALCUP	151.4	NC
WA4ZRS	WAXHAW	94.8	NC
WZ8E	MOUNTAIN LAKE	110.9	VA
146.2800 / 146.8800			
W4CVY	COLUMBUS		GA
W4BTI	MARIETTA/ATLANTA	100.0	GA
WA4NKL	QUITMAN		GA
W4HBB	SAVANNAH		GA
W4PF	LOUISVILLE		KY
KA4UHL	SOMERSET	77.0	KY
K5QNE	JACKSON	100.0	MS
KE5SJ	PASCAGOULA		MS
WB4TQD	RALEIGH		NC
W4NYR	SHELBY		NC
N7GZT	ORANGEBURG		SC
WD4CYZ	BRISTOL		TN
WA4KOG	MEMPHIS		TN
WA4PCD	NASHVILLE		TN
W4SKH	OAK RIDGE		TN
W4RAT	RICHMOND		VA
WA4V	SALEM		VA
WB8CQV	SO. CHARLESTON	203.5	WV
146.2950 / 146.8950			
N4VNI	HARTWELL	100.0	GA
WR4MG	HAWKINSVILLE	107.2	GA
K4JBV	FLORENCE	100.0	KY
KA4BLZ	LYNN GROVE	210.7	KY
W4APE	PAGELAND		SC
KF4HNV	CROSSVILLE	118.8	TN
WD4EGD	DANDRIDGE		TN
K4TTC	HOWENWALD	100.0	TN
WA4KXV	VIRGINIA BEACH		VA
WB3T	WYTH/WALKER MT	103.5	VA
147.4950 / 146.8950			
WD4LUQ	DALLAS	77.0	GA
KC4KZT	DORTON	141.3	KY
N5DWU	ELLISVILLE	136.5	MS
146.3100 / 146.9100			
WB4HIG	CLEVELAND		GA
K4HYB	GRIFFIN/CENAR		GA
K4GFY	MOREHEAD	123.0	KY
KS4TO	WADDY	107.2	KY
K5VV	HERNANDO		MS
WA5JZL	LUCEDALE		MS
K5OCM	NATCHEZ	91.5	MS
WA4ZGQ	AHOSKIE	131.8	NC
W4MOE	ASHVL/SPIVEY MT	91.5	NC
K4MN	FAYVLLE/CFARS	100	NC
W4PAR	LEXINGTON	107.2	NC
WA4SJS	WHITE HALL	156.7	SC
KC4ROG	KNOXVILLE		TN
W4YXA	SHORT MTN		TN
KE4ZBH	FARMVILLE		VA
K4TUE	MT.LAKE/BALD KNB	107.2	VA
N8BQ	MCMECHEN		WV
146.3250 / 146.9250			
WA4ASI	COVINGTON		GA
N4PJR	JESUP	141.3	GA
W4BEJ	RADCLIFF		KY
???	CORINTH	107.2	MS
AD4T	DOBSON	100.0	NC
W4APE	BISHOPVILLE		SC
K4ORE	CLARKSVILLE	110.9	TN
W4GZX	CLEVELAND		TN
WD4OBW	JONESBOROUGH		TN
WA4TFZ	CHARLOTTESVILLE	151.4	VA
WB4GJG	DANVILLE(DCC)	107.2	VA
WD8OGY	PRINCETON/PIPEST		WV
146.3400 / 146.9400			
KT4N	AUGUSTA		GA
W4VO	ROME/MT. ALTO	88.5	GA
WA4RVB	WRIGHTSVILLE		GA
KG4DVE	ASHLAND		KY
KY4X	GLASGOW	114.8	KY
K4MSU	MURRAY	91.5	KY
KB5DWX	AMORY	192.8	MS
KA5SBK	JACKSON	100.0	MS
K5JMD	MCCOMB		MS
K4CTY	BURGAW		NC
WA4IZG	BUTNER	156.7	NC
W4BFB	CHARLOTTE		NC
W4ACY	WANCHESE	131.8	NC
N7GZT	CHARLESTON		SC
W4IQQ	GREENVILLE	67.0	SC
WB4GBI	KNOXVILLE		TN
N4BSM	MEMPHIS	107.2	TN
W4ZA	RICHMOND		VA
N4AP	ROANOKE		VA
KD8AB	FENWICK		WV
W8CWO	WEIRTON		WV
N4HSV	HUNTSVILLE, AL		ZZ
146.3550 / 146.9550			
KD4AOZ	ATHENS	123.0	GA
KE4RQT	BLAIRSVILLE	100.0	GA
WR4MG	PERRY	107.2	GA
KF4BRO	FLEMINGSBURG	107.2	KY
N5EKR	ELLISVILLE		MS
KC5OB	ISOLA		MS
KD4WAR	BURNSVILLE		NC
K4RNC	ROCKINGHAM		NC
KD4BMX	PINE RIDGE	162.2	SC
NT4L	#NASHVILLE	114.8	TN
WZ8E	BLUEFIELD/ONEIDA	100.0	VA
N4CFA	FARMVILLE	136.5	VA
146.3700 / 146.9700			
K4CLJ	ATLANTA		GA
W4HBB	SAVANNAH		GA
K4DPP	#HENDERSON		KY
W8PRH	STANTON		KY
KI5FW	MERIDIAN	100.0	MS
N5PH	PASCAGOULA		MS
N5EYM	WINONA	110.9	MS
KD4BJD	BENSON		NC
N4AW	ANDERSON		SC
W4GEY	FLORENCE		SC
W4TRC	KNGSPT/BAYS MT		TN
WD4MWQ	MCMINNVILLE		TN
WA4RWK	MEDINA		TN
W4SKH	OAK RIDGE		TN
NC4BL	FANCY GAP	100.0	VA
W4WRN	STAUNTON		VA
WA4KXV	VIRGINIA BEACH		VA
KC8CPK	LOGAN/WRD RK MT		WV
N8NBL	PARKERSBURG (OH)		WV
146.3800 / 146.9800			
W4BEJ	ELIZABETHTOWN		KY
146.3850 / 146.9850			
K4KNS	AUGUSTA	100.0	GA
KC4ZGN	ELLIJAY/TALONA M	77.0	GA
KN4FE	WARM SPRINGS		GA
N4SEI	#JONATHAN CREEK		KY
N5LRQ	COLLINS	136.5	MS
KB5DMT	SENATOBIA	107.2	MS
K4OGB	ALBEMARLE	100.0	NC
K4JPE	DURHAM	156.7	NC
WD4PVE	MARION	118.8	NC
KC4PRD	NASHVILLE		TN
KE4SCS	PETERSBURG	127.3	VA
W4CA	ROANOKE/POOR MT		VA
N8OLC	HUNTINGTON	131.8	WV
KF8LL	NEW MARTINSVILE		WV
146.4000 / 147.0000			
WA4NNO	ATLANTA		GA
K5UFH	CORINTH		MS
KE5TL	#VANCLEAVE		MS
N5DXM	WATER VALLEY		MS
WD4FVO	JACKSONVILLE		NC
KD4HTW	MARION	192.8	SC
WB4YXZ	PICKENS	151.4	SC
KD4CWB	#KNOXVILLE	100.0	TN
W4ZJM	MEMPHIS	*#	TN
W4LG	SUFFOLK	100.0	VA
W8XF	CHARLESTON	91.5	WV
147.6000 / 147.0000			
W4EEE	BOGART		GA
KE4LR	SHELBYVILLE		KY
KG4M	WILLIAMSBURG		KY
KC5ULN	COLUMBUS		MS
W5IQ	JACKSON		MS
WW4DC	THOMASVILLE	88.5	NC
W4CBX	BLOUNTVILLE		TN
AC4RS	CLARKSVILLE	167.9	TN
KA6UHV	COLLEGEDALE	131.8	TN
KD8ZR	TERRA ALTA		WV
147.7000 / 147.0000			
W4VM	HUNTSVILLE, AL		ZZ
146.4150 / 147.0150			
K4AIS	WALESKA/PNLG MTN	100.0	GA
N4YSB	YADKINVILLE		NC
AB4M	LYNCHBURG	131.8	VA
K4AXO	NORTON/HIGH KNB	88.5	VA
147.6150 / 147.0150			
K4EDN	BONAIRE	82.5	GA
KG4OGC	HINESVILLE		GA
AD4RU	IRVINE		KY
N5JHK	MONTICELLO		MS
NC4LC	LINCOLNTON	141.3	NC
W4BAD	RALEIGH	88.5	NC
W4GL	SUMTER	156.7	SC
AF4TZ	NASHVILLE		TN
KE4RX	RCKWD/MT ROSVLT		TN
WF4Q	UNION CITY	107.2	TN
AA8TH	RICHWOOD		WV
146.4300 / 147.0300			
WV5D	LAUREL		MS
KU4OL	MOUNTAIN REST		SC
K4YTZ	ROCK HILL		SC
WA4JST	RICHMOND		VA
147.6300 / 147.0300			
W4REI	ATLANTA/AIRPORT		GA
KD4ULE	HOPKINSVILLE	103.5	KY
W4PJZ	LOUISVILLE	151.4	KY
W5LDD	OCEAN SPRINGS		MS
KG4BTN	GREENSBORO	131.8	NC
KB4DJT	ROANOKE RAPIDS		NC
KK4BQ	BARNWELL	156.7	SC
N4JTH	#N. MYRTLE BEACH		SC
W4BV	FAYETTEVILLE		TN
W4EM	MEMPHIS	107.2	TN
KQ4E	MORRISTOWN		TN
KC8IT	MULLENS		WV
WB8ECC	ST.MARYS/BENS RG		WV
146.4450 / 147.0450			
K4AIH	ANDRWS/ROBNSVL	151.4	NC
147.6450 / 147.0450			
KE4ZRT	DOUGLAS	141.3	GA
KD4AOZ	WATKINSVILLE	123.0	GA
KJ4VF	GRETHEL	100.0	KY
KE4OOS	PARIS	141.3	KY
KB5LCL	MORTON	141.3	MS
W4NHV	LUMBERTON		NC
KC4MJC	#TROUTMAN	77.0	NC
K4ILT	ST. GEORGE	103.5	SC
AF4O	BOLIVAR		TN
N2UP	LIVINGSTON		TN
K4AYN	NASHVILLE		TN
KE4CKJ	STAUNTON/EL.KB	131.8	VA
WA4SBC	VIRGINIA BEACH		VA
KD4UTV	DELAND, FL	103.5	ZZ
146.4600 / 147.0600			
W4CQ	CHARLOTTE		NC
KD4LDU	CHARLESTON	141.3	TN
KF4AGO	SOUTH BOSTON		VA
KA8PNC	PRINCETON		WV
147.6600 / 147.0600			
WA4DDI	MACON		GA
N4CLA	ROSWELL		GA
W4UCJ	THOMASVILLE		GA
K4LOL	BOWLING GREEN	156.7	KY
W4NJA	PADUCAH	103.5	KY
N5OCF	RICHTON		MS
KB4BR	MACO		NC
W4VFR	SUMTER/SHAW		SC
N4FV	GREENEVILLE	186.2	TN
WA4MQQ	MEMPHIS		TN
N4VFB	SHELBYVILLE		TN
WB4VWR	ENON	107.2	VA
N8ZAR	BUCKHANNON	123.0	WV
147.6700 / 147.0700			
N4MRM	LOUISVILLE	151.4	KY
146.4750 / 147.0750			
KK4MW	CARBO	103.5	VA
NM8T	SMITHERS		WV
147.6750 / 147.0750			
W4CLA	CLAXTON		GA
W4GR	LAWRENCEVILLE	82.5	GA
N4TLP	OWINGSVILLE		KY
NC5Y	JACKSON		MS

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

K4CCR	NEWTON	88.5	NC
KD4JFN	PITTSBORO	146.2	NC
KT4BU	EASTOVER	156.7	SC
WQ4E	GREENBRIER	107.2	TN
WB4GBI	KNOXVILLE		TN
WF4Q	MCNAIRY	107.2	TN
AD4ZK	NORFOLK		VA
W4PNT	WAYNESBORO		VA
KE8MR	MORGANTOWN	103.5	WV

147.6900 / 147.0900

KE4RWR	BAINBRIDGE		GA
KC4YHM	EATONTON	179.9	GA
K2YRW	YOUNG HARRIS		GA
KF4CWK	DAWSON SPRINGS	103.5	KY
N4MWA	PHELPS		KY
KB5DSN	AMORY		MS
N5MRS	NEW HEBRON		MS
WB5FXH	#SUMNER		MS
W4GDF	GREENVL/ESTN NC		NC
KI4DH	STAR/BISCOE	100.0	NC
K4SHP	MYR BCH/ANYOR		SC
KF4ATU	ORANGEBURG	156.7	SC
K4JLA	PAULINE		SC
AG4UW	CENTERVILLE	123.0	TN
K4NLP	JAMESTOWN	100.0	TN
W4GMM	MEMPHIS	107.2	TN
W4BRC	GALAX/BRIRP MT		VA
N4TZE	GOOCHLAND		VA
N4RAG	MARLINTON	131.8	WV

147.7050 / 147.1050

WB6RTH	ATLANTA	107.2	GA
KF4DG	PEMBROKE		GA
N4EQT	FRANKFORT	107.2	KY
WA4ZAC	HARLAN		KY
W5SAR	WAYNESBORO		MS
WA4KNI	HENDERSONVILLE		NC
K4ITL	LILLINGTON	82.5	NC
KD4NEC	CLEVELAND		TN
K4TC	HENDERSON		TN
W4LYR	LEBANON	100.0	TN
WB4JBJ	BEDFORD		VA
KB4ZIN	WILLIAMSBURG		VA
KA8AUW	SPENCER	100.0	WV

147.7200 / 147.1200

W4CMA	CEDARTOWN		GA
K4HCA	CLARKESVILLE		GA
KT4N	#LINCOLNTON		GA
KA4KMT	#LOUISVILLE		KY
KD4DVI	PADUCAH	179.9	KY
WB4ASZ	WINCHESTER		KY
NO5N	ACKERMAN		MS
N4GAS	GASTONIA/SPCR MT		NC
WN4Z	ROCKY MOUNT	131.8	NC
W4GS	MYRTLE BEACH		SC
W4GGM	COLUMBIA	127.3	TN
N4WAH	MEMPHIS	107.2	TN
W4SKH	OAK RIDGE	82.5	TN
WG8S	PATRICK SPRINGS	107.2	VA
WB8DKM	BRIDGEPORT		WV
WB8NAM	MADISON		WV

147.7350 / 147.1350

N4BZJ	DALTON	118.8	GA
WR4SG	LAKE PARK	141.3	GA
KE4UWJ	MILLEDGEVILLE	123.0	GA
KF4CME	BARBOURVILLE	100.0	KY
KE4SZK	FRANKLIN	136.5	KY
KF4WMM	SANDY HOOK	107.2	KY
KB5UIX	VOSSBURG	136.5	MS
K4HXZ	BREVARD		NC
K4ITL	CHAPEL HILL	82.5	NC
WA4US	WILMINGTON	67.0	NC
K4CCC	CHESTERFIELD		SC
KG4BZN	WALTERBORO		SC
WB4EDS	ALAMO		TN
N4AZJ	PEARISBURG	100.0	VA
KC4VDZ	RICHMOND	107.2	VA
KE8MR	DAVIS	103.5	WV
KC8TLG	ROCKPORT	123.0	WV
AA2LD	VINELAND, NJ	156.7	ZZ

147.7500 / 147.1500

WB4GQX	CUMMING		GA
WA4IDS	SAVANNAH		GA
KD4YGK	LEBANON JCT.	79.7	KY
KI5WI	BOONEVILLE		MS
KF5IZ	PEARL/RANKIN CO	88.5	MS
K4VLY	MORGANTON		NC
K4ITL	ROANOKE RAPIDS	82.5	NC
WD4NUN	MONCKS CORNER		SC
WA4PCD	NASHVILLE WEST	114.8	TN
K4EAJ	OAK RIDGE	82.5	TN
KB4RFN	CLINCHCO	88.5	VA
KB8YDG	RICHWOOD	100.0	WV

147.7650 / 147.1650

KE4ZRT	DOUGLAS	141.3	GA
KF4XH	#MACON		GA
N4OME	MADRAS	131.8	GA
N4NEQ	MORGANTON	151.4	GA
W4WSM	BOWLING GREEN		KY
WA4HBM	LEXINGTON		KY
WB4UBY	PRESTONSBURG		KY
W4UA	HIGH POINT		NC
KD4PBK	LUMBERTON	88.5	NC
W4GWD	GREENWOOD	107.2	SC
KF4BRS	ERWIN/UNICOI		TN
KC4YLL	PARIS	114.8	TN
WA4CEX	PURYEAR		TN
KR4BT	SPARTA/WHITE	123.0	TN
KE4VNN	LYNCHBURG	141.3	VA
W4CM	NEWPORT NEWS		VA
KA8TCF	WESTON		WV

147.7800 / 147.1800

N4BMA	AUGUSTA		GA
WD4NHW	BALDWIN		GA
WB4BDP	WARNER ROBINS	107.2	GA
KE4ZJT	LONDON	151.4	KY
W4CN	LOUISVILLE	88.5	KY
N5LRL	INDIANOLA		MS
KC5LIO	WEST POINT		MS
WA1YYN	EFLAND	156.7	NC
AC4RC	WILMINGTON	88.5	NC
W4DXA	FORT MILL		SC
W4HNK	SUMMERVILLE	123.0	SC
WD4DES	CLEVELAND	118.8	TN
WA4KOG	MEMPHIS		TN
K4ZGA	NASHVILLE	114.8	TN
WD4ITN	MONTEREY	100.0	VA
N4NRV	PKS KB/PULASKI	103.5	VA
WD8OHX	LEON		WV

147.7950 / 147.1950

K4JPD	#AUSTELL	85.4	GA
W4UCJ	BOSTON		GA
KT4SH	CADIZ	103.5	KY
KJ4VF	LEXINGTON		KY
KJ4VF	WINCHESTER	100.0	KY
KC5YUX	SILVER CREEK	136.5	MS
N4NIN	#LENOIR		NC
KO4CW	RALEIGH	88.5	NC
W4APE	FLORENCE		SC
KC4FV	ARNOLD A.F.B.		TN
KD4CWB	KNOXVILLE	100.0	TN
AF4OQ	SARDIS	94.8	TN
WA4RTS	LYNCHBURG	136.5	VA
WT4RA	SMITHFIELD	100.0	VA
NV8H	LOGAN SOUTH	100.0	WV

147.8100 / 147.2100

KF4GHF	CONYERS	162.2	GA
K4NLX	SAVANNAH		GA
KM4M	BLACK MTN	103.5	KY
K4HY	OWENSBORO	110.9	KY
N5SPJ	UNION	100.0	MS
W4BUZ	GREENSBORO		NC
W4SLH	ORIENTAL	151.4	NC
W4NTQ	WHITEVILLE		NC
K4AVU	LITTLE MT.		SC
W4HPL	COOKEVILLE		TN
WF4Q	JACKSON	107.2	TN
KB8NJH	AMBER RIDGE	107.2	WV
N8FMD	CLARKSBURG	103.5	WV

147.8250 / 147.2250

W8JI	BARNESVILLE		GA
KF4ADI	COMMERCE	123.0	GA
KG4ABK	DOERUN		GA
W4RLP	SUMMERVILLE	100.0	GA
KY4SP	LITCHFIELD	179.9	KY
W5BJT	#FRENCH CAMP		MS
WB4SRV	CLAREMONT	162.2	NC
WR4AGC	HILLSBOROUGH		NC
W4DTW	ST. GEORGE		SC
NO4Q	MCEWEN		TN
WB4OAH	MORRISTOWN		TN
KA4VXR	HAMPTON	136.5	VA
WB8NRK	PRINCETON	114.8	WV
KA1OKQ	CONCORD, NH	100.0	ZZ

147.8400 / 147.2400

AE4JO	EMERSON	103.5	GA
WB4NFG	IRWINTON	77.0	GA
KC4QK	ASHLAND	107.2	KY
W4GZ	FARMINGTON	91.5	KY
KC4AI	FRANKFORT	100.0	KY
KF4TLT	HYDEN	186.2	KY
W5PPB	PELAHATCHIE	77.0	MS
N5ELS	TUPELO		MS
KG4BOS	CARTHAGE		NC
KG4JIA	CHERRY MTN	94.8	NC
W4GHZ	FRANKLIN	151.4	NC
W4IAR	HILTON HEAD		SC
AC4VT	LANCASTER	88.5	SC
K2PJ	MYRTLE BEACH	85.4	SC
W4LKZ	GALLATIN	114.8	TN
KD4ZTK	BOYDTON		VA
N4MGQ	ELK CRK/IRON MT	107.2	VA
AB8WB	#GASSAWAY	123.0	WV

147.8550 / 147.2550

KR4NQ	SNELLVILLE	107.2	GA
AE4PO	WAYCROSS	141.3	GA
N4IOX	#DIXON		KY
K4CO	HIGHLAND HTS.	123.0	KY
KC5RC	LAUREL		MS
WA4KNI	HENDSVL/PENIC		NC
K4ITL	LEVEL CROSS	82.5	NC
W4RRC	LEESVILLE	123.0	SC
AG4UW	CENTERVILLE	123.0	TN
KJ4SI	PETROS/FRZ HD MT		TN
K4BW	ACCOMAC	156.7	VA
WD4CYZ	#CLINCHCO		VA
KC8CNL	HINTON	100.0	WV
WC8EC	PARKERSBURG		WV

147.8700 / 147.2700

KF4ZUR	ALLENHURST	162.2	GA
W4VIR	AMERICUS	141.3	GA
KF4GHF	COVINGTON	162.2	GA
WB4EJK	LOUISVILLE	151.4	KY
KE4AIE	ST. CHARLES		KY
WB5USN	ABERDEEN		MS
K5ZRO	VICKSBURG	100.0	MS
W4CQ	CHARLOTTE		NC
AK4H	RALEIGH/BENSON		NC
N4SM	WAYNESVILLE		NC
W4ANK	CHARLESTON AREA		SC
WA4JRJ	SENECA/LONG MT		SC
WD4BKY	GALLATIN	114.8	TN
WB0TMC	JACKSON		TN
KE4FH	JOHNSON CITY		TN
WB4IKL	GUM SPRING		VA
KB4QWO	ROANOKE/POOR MT		VA
WV8AR	SCOTT DEPOT	123.0	WV

147.8850 / 147.2850

W4PVW	ASHBURN/TIFTON	141.3	GA
KA5WZY	ATLANTA		GA
KC4WWU	KINGSLAND	118.8	GA
KC4ZFH	LONDON		KY
KA4FGA	MARION		KY
N5LJC	COLUMBIA		MS
KB5TGA	CORINTH		MS
W4RCW	TRYON		NC
N4ADM	AIKEN		SC
N4LV	MYB BCH/BRKSVIL		SC
KF4JPT	PIKEVILLE		TN
KF4KVG	MARTINSVILLE	107.2	VA
KA4ZIP	WARSAW		VA
W8LG	PINEVILLE		WV
N8HON	SPRUCE KNOB		WV
W3PS	OCEAN CITY, NJ	146.2	ZZ

147.9000 / 147.3000

N4ALE	COLBERT	123.0	GA
WB4YSV	ROME		GA
WR4MG	WARNER ROBINS	107.2	GA
K4ICN	ALLEN	123.0	KY
WA4SJH	SPRINGFIELD		KY
KA5LNY	MAGEE		MS
W4YSB	JEFFERSON	103.5	NC
N4JEX	KANNAPOLIS	136.5	NC
W4MZP	RED SPRINGS		NC
WB4IUY	WILSON	88.5	NC
KE4HHR	CHARLESTON	103.5	SC
W4CAT	GALLATIN	114.8	TN
W4BBB	KNOXVILLE/RACK	100.0	TN
WA4ADT	MEMPHIS	107.2	TN
W4LG	FRANKLIN	131.8	VA
KI4ZR	LEXINGTON	131.8	VA
WB8NSL	HARISVL/PENSBRO	107.2	WV

147.9150 / 147.3150

AD4EQ	DOUGLAS	141.3	GA
W4STJ	FORSYTH	88.5	GA
W4LJM	#HODGENVILLE		KY
KC4VXR	SALEM		KY
KD5MIS	HATTIESBURG	136.5	MS
N5DWU	WAYNESBORO		MS
KF4HFQ	ROLESVILLE	88.5	NC
K4MPJ	SAURATOWN MT	100.0	NC
K4PPD	SHALLOTTE	118.8	NC
K4JLA	SPARTANBURG		SC
KD4HZN	ROGERSVILLE	114.8	TN
N4ARK	SPARTA	123.0	TN
KE4VQM	TELLICO PLAINS	141.3	TN
K4HWQ	GRUNDY		VA
W3PS	PHILADELPHIA, PA	156.7	ZZ

147.9300 / 147.3300

W3LAP	COCHRAN	77.0	GA
WB4BXO	LAGRANGE		GA
K4NLX	SAVANNAH		GA
N4MTN	TOCCOA		GA
WA8KWH	ASHLAND		KY
KA4CFW	BOWLING GREEN		KY
W4JTL	MT. STERLING	103.5	KY
N4IUI	#PROVIDENCE		KY
N5EPP	PHILADELPHIA		MS
WA4FLR	FAYETTEVILLE		NC
KN4K	LENOIR/HIBRITN	141.3	NC
KF4GHC	COLUMBIA	156.7	SC
WD4ORB	MORGAN COUNTY	82.5	TN
WD4RBJ	PULASKI	100.0	TN
KI4ZR	LEXNGTN/ROCK MT.		VA

147.9450 / 147.3450

N4NEQ	ATLANTA/MARIETTA	151.4	GA
N4PJR	JESUP/SCREVEN		GA
WD4JZH	LEBANON	151.4	KY
KG5SF	GREENVILLE		MS
N5ZMZ	UTICA		MS
WA4IXW	MADISON	103.5	NC
W4NYR	SHELBY		NC
KF4DTL	SYLVA	151.4	NC
WA4TEP	WASHINGTON		NC
KF4CDR	CHARLESTON		SC
KB4RRC	PALMETTO		SC
K4BBN	CROSS PLAINS		TN
K4PHT	DAYTON		TN
NM4L	ABINGDON	103.5	VA
KC4KMY	EASTVILLE	156.7	VA
W3RUA	FRANKLIN		WV
KB8QXP	LOGAN/SUMERCO		WV

147.9600 / 147.3600

W4SCR	DOUGLASVILLE	88.5	GA
WA4HZX	DUBLIN		GA
KQ9Z	LOUISVILLE		KY
W5CJR	HATTIESBURG		MS
KC5QGC	LOUISVILLE		MS
K5SVC	NATCHEZ	100.0	MS
WA4J	BOONE/RICH MTN	103.5	NC
WD4LDB	DURHAM		NC
W4PET	LUMBERTON		NC
N4EOY	COLUMBIA		SC
KA4OAK	LAFOLLETTE		TN
W4BS	MEMPHIS	107.2	TN
AF4TZ	NASHVILLE		TN
K4KLX	PARIS		TN
KA4CBB	CHESTERFIELD		VA
KB4OLM	STUARTS DRAFT		VA
N8FWL	BECKLEY	123.0	WV
WV8TC	MIDDLEBOURNE	110.9	WV
K7SOB	SKYLINE	127.3	WV

147.9750 / 147.3750

K4TQU	ATHENS/CRAWFRD	127.3	GA
KB4VAK	LAFAYETTE	77.0	GA
K4XYZ	BUCKHORN LAKE	103.5	KY
K4CO	WALTON	123.0	KY
KA5VFU	GULFPORT		MS
KD4EAD	BETHEL	151.4	NC
KD4WAR	BURNSVILLE		NC
K4GWH	GRAHAM	114.8	NC
KI4CB	GEORGETOWN		SC
K4LEO	#GREENWOOD		SC
KN4HL	DICKSON		TN
W4NRV	PEARISBURG	100.0	VA
WD8LNB	GRAFTON	118.8	WV

147.9800 / 147.3800

WB5NAY	PONTOTOC		MS

147.9900 / 147.3900

KE4SNT	#BLACK ROCK MT		GA
W4CJB	PEMBROKE		GA
W4OHH	THOMASTON	131.8	GA
N4INT	#ARTEMUS	107.2	KY
WR8CRA	COVINGTON	123.0	KY
KF4TOL	CRESTWOOD	151.4	KY
N8QCW	LOUISA	127.3	KY
KC5QHP	FOREST	100.0	MS
WB4IUY	CLAYTON	88.5	NC
WA4QBG	EDEN/STONEVILLE		NC
WA4CHZ	LOCUST	100.0	NC
K4PPD	SHALLOTTE		NC
N4DTR	WAYNESVILLE		NC
KA4FEC	LEXINGTON		SC
KF4L	CLARKSVILLE	123.0	TN
K4DPD	DAYTON/RHEA CTY		TN
KQ4E	#MORRISTOWN		TN
WA4BJY	OAKFIELD		TN
KF4TNP	#RICHLAND	167.9	TN
K4ARO	PETERSBURG		VA
N8RCG	KEYSER	123.0	WV
WV8D	LEWISBURG	100.0	WV
WD8CYV	PARKERSBURG	141.3	WV

220 MHZ

222.1800 / 223.7800

WD8OHX	#LEON		WV

222.3000 / 223.9000

WB4SJV	HERMITAGE		TN

222.3400 / 223.9400

KC4QK	ASHLAND		KY
N4GSM	ROBBINSVILLE		NC
W4ZJM	MEMPHIS	*#	TN

222.3600 / 223.9600

WR3S	SMITHVILLE		TN
AA2LD	MILLVILLE, NJ	156.7	ZZ

222.3800 / 223.9800

W4CAT	GALLATIN	107.2	TN
W3PS	OCEAN CITY, NJ	156.7	ZZ

222.4200 / 224.0200

WB4JEH	#CONYERS		GA

222.4600 / 224.0600

W4NYR	SHELBY		NC

222.5000 / 224.1000

K4SWS	EATONTON	179.9	GA
KA4UHL	NANCY	100.0	KY
KF4TNP	LEWISBURG		TN
WB4YHD	FAIRFAX		VA
N4CH	ROANOKE		VA

222.5200 / 224.1200

N4NFP	ATLANTA/MARIETTA	151.4	GA
WM4MD	MIDDLESBORO	82.5	KY
K4ITL	CHAPEL HILL		NC
W4GL	SUMTER		SC
WV8B	FLAT TOP/WINTRPL	100.0	WV

222.5400 / 224.1400

KD4ALC	WALESKA		GA
WR4BEG	SOPHIS/RANDLEMAN		NC
WB4QHF	PICKENS/CSRS HD	131.8	SC
KB4PNG	ONEIDA		TN
N4HRV	CHARLOTTESVILLE	88.5	VA
N8FWL	LEWISBURG	123.0	WV
WR8M	WILLIAMSON		WV

222.5600 / 224.1600

KC4JNN	BISKEY MTN	100.0	GA
KN4K	LENOIR/HIBRITN		NC
K4ITL	RALEIGH		NC
N7GZT	COLUMBIA		SC
WR3S	NASHVILLE		TN
KF4VED	BLUEMTN		VA

222.5800 / 224.1800

N4YDX	DALLAS		GA
N7GZT	ORANGEBURG		SC
KB8FPK	ERWIN		TN
WA1ZMS	BEDFRD/APL ORCH	100.0	VA

222.6000 / 224.2000

KC4OVY	#ATLANTA-NE	100.0	GA
WA4US	WILMINGTON		NC
W4ILY	GREENVILLE		SC
W4CBX	BLOUNTVILLE		TN
W4JAS	HAMPDEN-SYDNEY		VA

222.6200 / 224.2200

KB0Y	RAY CITY	141.3	GA
AD4CR	VERSAILLES		KY
NF4C	ROCKY MOUNT		NC
KB4FZK	KNXVL/CROSS MT	100.0	TN
KO4BN	SPRINGFIELD		TN
N3HXT	WINCHESTER		VA
KC8LRN	HILLSBORO	131.8	WV

222.6400 / 224.2400

N4YYD	FT MT/CHATSWTH	71.9	GA
WA4KNI	HENDSVL/BERWLW		NC
KE4QOX	KVILLE/HIPOINT	107.2	NC
N8FWL	BECKLEY	123.0	WV

222.6600 / 224.2600

KE4QFG	MARIETTA	110.9	GA
K4NLT	GARRETT	79.7	KY
WA4BVW	ASHVL/MT PISGAH		NC
WR4AGC	HILLSBOROUGH		NC
N4PYI	SHORT MTN.	114.8	TN

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

222.6800 / 224.2800			
N4MNA	CONLEY		GA
AC4RZ	PICKENS		SC
KA4OAK	LAFOLLETTE		TN
AB4M	LYNCHBURG		VA
222.7000 / 224.3000			
KB4TIW	VILLA RICA	131.8	GA
KA4MKT	LOUISVILLE		KY
N4AI	SOMERSET		KY
WA4WRS	BARIUM SPRINGS		NC
KE4CKJ	STAUNTON/EL KNOB	131.8	VA
222.7200 / 224.3200			
N4MTA	ACWORTH/ATL	123.0	GA
KA4SQN	JACKSONVILLE		NC
W4IT	PICKENS/SASFR MT		SC
KK4US	CLEVELAND		TN
223.7200 / 224.3200			
K4TDO	LYNCH		KY
222.7400 / 224.3400			
W4DOC	ATLANTA		GA
WW4DC	THOMASVILLE	88.5	NC
WB4GBI	KNOXVILLE		TN
KM4OI	TYSONS CORNER		VA
N8FWL	BECKLEY/OAK HILL	123.0	WV
222.7600 / 224.3600			
N4BZJ	DALTON		GA
WB4PAC	GRIMESLAND		NC
WA4TG	MARSHALL		NC
WR3S	LAVERGNE		TN
KE4JSV	LURAY		VA
WB8YST	CHARLESTON	107.2	WV
222.7800 / 224.3800			
N4RBT	DAHLONEGA	100.0	GA
WR4AMS	META		KY
N4OQJ	KNOXVILLE	100.0	TN
WS4W	RIDGEWAY		VA
222.8000 / 224.4000			
KC4AQS	JASPER	100.0	GA
W4BFB	CHARLOTTE		NC
WB4QHF	PICKENS	131.8	SC
KB4YGI	COLLIERVILLE		TN
N4RBB	MORRISTOWN		TN
W8COX	SUTTON	123.0	WV
W3PS	POTTSTOWN, PA	156.7	ZZ
222.8200 / 224.4200			
KD4AOZ	WATKINSVILLE	123.0	GA
AC4AO	LEXINGTON		KY
N4PJX	CLARKESVILLE	123.0	TN
W4BS	MEMPHIS		TN
WD4GSM	NORTON/HIGH KNB		VA
WG8S	PATRICK SPRINGS	103.5	VA
WD4KHP	BELL KNOB		VA
222.8400 / 224.4400			
N4NEQ	ATLANTA/MARIETTA	151.4	GA
WB4GUG	GREENSBORO	107.2	NC
KN4CW	WEST SPRINGS		SC
KC4TFQ	#NASHVILLE		TN
N2FUV	SEVIERVILLE		TN
N8FWL	BLUEFIELD	123.0	VA
222.8600 / 224.4600			
N4BZJ	DALTON	118.8	GA
KB0Y	VALDOSTA	141.3	GA
K4XYZ	BUCKHORN LAKE	103.5	KY
KC4ZTJ	SHELBY		NC
WR3S	NASHVILLE		TN
222.8800 / 224.4800			
KC4FWC	LOCUST		NC
K4ZGA	NASHVILLE		TN
KD4HZN	ROGERSVILLE		TN
KC8LRN	CRAIGSVILLE	91.5	WV
222.9000 / 224.5000			
N4MTA	ACWORTH/ATL	123.0	GA
N4FND	SHEPHERDSVILLE	151.4	KY
N4DRL	BYHALIA		MS
AD4DN	WILMINGTON	88.5	NC
KG4JIA	GAFFNEY	123.0	SC
W4BBB	KNOXVILLE/RACK	100.0	TN
K4RCA	MARTINSVILLE		VA
222.9200 / 224.5200			
K4AIS	PINE LOG MTN		GA
WR4AMS	DORTON		KY
KD4CJG	ASHEVILLE	91.5	NC
N7GZT	LITTLE MTN		SC
222.9400 / 224.5400			
N4YEA	DALLAS		GA
WA4BVW	MT MITCHELL		NC
N8ITF	SPRINGFIELD		TN
WB4PVT	HAMPTON	100.0	VA
N8FWL	BECKLEY - WEST	123.0	WV
222.9600 / 224.5600			
W4RRG	LOOKOUT MT		GA
KD4RXF	LANCASTER		KY
WB4YZF	FAYETTEVILLE		NC
N5CWH	LEESVILLE	162.2	SC
AC4JF	NEWPORT	100.0	TN
K4YW	WYTHEVILLE	77.0	VA
KC8CSE	GREENBANK	123.0	WV
222.9800 / 224.5800			
NX9O	ALPHARETTA	100.0	GA
WB4F	PIKEVILLE		KY
KR4AA	ROCKY MOUNT		NC
KB4VFD	CROSS		SC
N4KFI	KNOXVILLE	103.5	TN
223.0000 / 224.6000			
W4UWH	JASPER	100.0	GA
WB4PLA	ASHEVILLE		NC
KC4KUL	#BIG PHOENIX MTN	100.0	NC
KD4TZZ	MURFREESBORO	123.0	TN
W4LG	LAKE GASTON		VA
223.0200 / 224.6200			
W4PME	ATLANTA/BELL	100.0	GA
KD4DAR	PIKEVILLE		KY
KC4IRA	GASTONIA	127.3	NC
KD4JFN	HAW RIVER	107.2	NC
W4UWH	GATLINBURG		TN
W4GSF	GLOUCESTER		VA
223.0400 / 224.6400			
W4RRG	LOOKOUT MT.		GA
KG4JIA	CHERRY MTN	71.9	NC
W4RNC	RALEIGH		NC
N7GZT	COLUMBIA		SC
KC4RGQ	MORRISTOWN		TN
N8FWL	HINTON/BECKLEY	123.0	WV
223.0600 / 224.6600			
NP2Y	YOUNG HARRIS	100.0	GA
KE4RQL	BIG KNB/MARS HIL	100.0	NC
WA1YYN	EFLAND	107.2	NC
W4VFR	SUMTER/SHAW		SC
WR3S	NASHVILLE		TN
223.0800 / 224.6800			
N4BZJ	DALTON		GA
KJ4VF	STANVILLE	100.0	KY
WB4KPF	WILMINGTON		NC
KA4RCL	WAYNESBORO	131.8	VA
W3PS	EAGLEVILLE, PA	156.7	ZZ
223.1000 / 224.7000			
W4TIY	DALLAS		GA
WB9SZL	CLEMMONS	100.0	NC
KM4TC	DUNCAN	88.5	NC
KD4VUW	GALLATIN		TN
KD4IBW	SEVIERVILLE	100.0	TN
K4ARO	PETERSBURG		VA
WS8L	CHARLESTON	123.0	WV
223.1200 / 224.7200			
W4UWH	CLAYTON		GA
WR4AMS	PRESTONSBURG		KY
WA4DAN	TRENTON		NC
K4MFD	GREENEVILLE	173.8	TN
KC8LRN	SLATY FORK	91.5	WV
223.1400 / 224.7400			
N4KVC	DALTON		GA
KD4WAR	BURNSVILLE		NC
N4NCK	OXFORD		NC
N4PYI	NASHVILLE	100.0	TN
KC4JGC	NORFOLK	100.0	VA
N8FWL	BECKLEY - SOUTH	123.0	WV
223.1600 / 224.7600			
W4BOC	#DECATUR		GA
KJ4VF	MOREHEAD	100.0	KY
KB7BTU	PLYMOUTH	131.8	NC
W4EXU	SALISBURY		NC
WQ4E	GREENBRIER		TN
K4PCK	KNOXVILLE		TN
WR3S	S. PITTSBURG		TN
WA4TFZ	CHARLOTTESVILLE		VA
223.1800 / 224.7800			
KC4KLW	CEDARTOWN	179.9	GA
WB5OWY	VICKSBURG		MS
N4IV	EDEN	103.5	NC
KO4BR	ORANGEBURG		SC
K4VCM	CHATTANOOGA		TN
KE4FH	JC/BUFFALO MT		TN
WA4KOG	MEMPHIS		TN
W4IY	WOODBRIDGE		VA
223.2000 / 224.8000			
WZ4SC	FORT MILL		SC
WQ4E	GREENBRIAR		TN
KD4IBW	SEVIERVILLE		TN
KC8LRN	LEWISBURG	131.8	WV
KA1OKQ	CONCORD, NH	103.5	ZZ
223.2200 / 224.8200			
KK4C	ATLANTA	77.0	GA
WR4MG	HAWKINSVILLE	107.2	GA
WR4AMS	HAZARD		KY
N4DWU	CANTON		NC
KF4IXK	KERNERSVILLE	107.2	NC
223.2400 / 224.8400			
W4TL	GAINESVILLE	203.5	GA
WR4MG	WARNER ROBINS		GA
WA4NC	BANNER ELK		NC
WA4DAN	GRIFTON		NC
KC4WGH	COALFIELD	88.5	TN
KC4PRD	NASHVILLE		TN
N4PLV	BEDFORD		VA
N8FWL	ANSTED	123.0	WV
223.2600 / 224.8600			
KC4JNN	ALPHARETTA	100.0	GA
K4NOC	BISHOPVILLE		SC
KQ4Q	PEARISBURG	107.2	VA
223.2800 / 224.8800			
WD4LUQ	YORKVILLE	77.0	GA
N4AI	SOMERSET		KY
N4DRL	WARSAW		MS
K4AIH	ANDRWS/ROBINSVL		NC
W4JYV	CARY	88.5	NC
K4DQ	FANCY GAP	100.0	VA
223.3000 / 224.9000			
W4LMA	MARIETTA		GA
N4EQT	LAWRENCEBURG	107.2	KY
N4EOY	COLUMBIA		SC
W4WC	GREENEVILLE	100.0	TN
WD9JGI	SWEETWATER	127.3	TN
AA4HQ	DELTAVILLE		VA
K4YDG	ROANOKE/TINKER		VA
223.3200 / 224.9200			
W4CSX	SNELLVILLE	100.0	GA
W4NYK	GRNVL/DOWNTWN	88.5	SC
W4RRG	CLEVELAND		TN
WA8O	BLUEFIELD		VA
223.3400 / 224.9400			
WB4KXO	AUGUSTA		GA
K4AIS	WALESKA/PNLG		GA
AD4RU	IRVINE		KY
N4JJ	FLORENCE		SC
WB4NKM	GREENEVILLE		TN
WA4PCD	NASHVILLE		TN
AB4EM	ROANOKE/CAHAS MT		VA
223.3600 / 224.9600			
K4RFL	ATLANTA/MARIETTA	100.0	GA
KC4ZTJ	CHERRYVILLE		NC
N4QVI	GREENSBORO		NC
N4UQS	HENDERSONVILLE		NC
WR3S	SE NASHVILLE		TN
W3PS	CHESTER, PA	156.7	ZZ
223.3800 / 224.9800			
K4JSR	CUMMING		GA
WR4AMS	LONDON		KY
W4LG	CHESAPEAKE		VA

440 MHZ

426.0500 / 420.0500			
KB4CVN	LYNCHBURG	136.5	VA
434.0000 / 421.2500			
W4ZTL	ATLANTA/BELL		GA
K4NLX	SAVANNAH		GA
KJ4SO	DURHAM TV HILL		NC
KO4AT	GREENSBORO		NC
WD4ATV	JOHNSON CITY/BUF		TN
WA4GSS	HUNTINGTON		WV
KB8QHO	WHEELING		WV
439.2500 / 421.2500			
W4BEJ	ELIZABETHTOWN		KY
W4PPN	CHARLOTTE		NC
N4GUP	LEXINGTON		SC
WZ4O	SUMTER		SC
AF4TZ	NASHVILLE		TN
N4XND	GLOUCESTER		VA
W4HTB	BOWLING GREEN		KY
KA5NOJ	GAUTIER		MS
N3XA	WAYNESBORO		VA
WA4VHP	SAVANNAH		GA
W4NYR	#SHELBY		NC
438.7750 / 433.0750			
WA3KOK	CHESTERFIELD		VA
438.8000 / 433.2000			
WD4ICX	FANCY GAP		VA
446.2500 / 441.2500			
NQ4Y	MONTEAGLE MT.		TN
446.3500 / 441.3500			
KD4DXR	#WALESKA		GA
WA4USN	KNIGHTSVILLE		SC
446.4500 / 441.4500			
WA4USN	MT. PLEASANT		SC
446.5250 / 441.5250			
N4KJU	PAINTSVILLE	127.3	KY
KY4SP	WEBSTER		KY
KG4AQH	GREELEYVILLE		SC
446.6000 / 441.6000			
WA4AYB	RICHMOND		VA
446.6250 / 441.6250			
W4ERT	TAYLORSVILLE	123.0	NC
446.8000 / 441.8000			
KC4YNF	ACWORTH	77.0	GA
AF4MI	PEMBROKE	123.0	GA
AD4CC	UNION	179.9	KY
446.8250 / 441.8250			
KA4MLK	ROME	100.0	GA
446.8500 / 441.8500			
KF4QLF	GRIFFIN		GA
K4WOC	SUGAR VALLEY	103.5	GA
KY4DJ	FORT WRIGHT	107.2	KY
446.8750 / 441.8750			
K4NRC	NEWNAN	156.7	GA
KD4TZZ	MURFREESBORO	107.2	TN
446.9000 / 441.9000			
WB4GQX	CUMMING	141.3	GA
N2QJI	ZIRCONIA	94.8	NC
AG4VT	PACOLET	100.0	SC
446.9250 / 441.9250			
W4CSX	DALLAS	162.2	GA
446.9500 / 441.9500			
KE4OKD	SANDY SPRINGS	156.7	GA
K4TUE	NEWPORT	107.2	VA
446.9750 / 441.9750			
WB4ULK	COLUMBUS		GA
KF4ADI	COMMERCE	123.0	GA
KG4BTN	GREENSBORO	162.2	NC
447.0000 / 442.0000			
WB6RTH	ALPHARETTA	107.2	GA
AF4UL	MACON	100.0	GA
N4ORL	LOUISVILLE		KY
N4HAJ	KINSTON	88.5	NC
AI4M	GAFFNEY	114.8	SC
K4TTC	HOHENWALD		TN
K4BTL	MARYVILLE		TN
W4LG	GASBURG		VA
WB3T	WYTHE/WALKER MT	103.5	VA
447.0250 / 442.0250			
W4CML	ATLANTA	127.3	GA
KD4KMK	YADKINVILLE	100.0	NC
WJ9J	CHATTANOOGA		TN
447.0500 / 442.0500			
N1KDO	MARIETTA	107.2	GA
KD4ADJ	LEXINGTON		KY
WA1YYN	EFLAND	107.2	NC
KD4XV	JASPER	127.3	TN
WB4SQC	#JOHNSON CITY	100.0	TN
WA4BJY	MEDINA		TN
447.0250 / 442.0750			
W8BLA	ROSWELL		GA
447.0750 / 442.0750			
N4VOS	STANTON		KY
KD4PBS	APEX	114.8	NC
K4JLA	COLUMBUS	103.5	NC
N4JDW	WILMINGTON	88.5	NC
KJ4BJ	DAYTON		TN
KA4BNI	LEXINGTON	107.2	TN
KF4UCI	CHARLOTTESVILLE	151.4	VA
447.1000 / 442.1000			
K4HUM	NORCROSS	100.0	GA
N4RBL	LOUISVILLE AREA		KY
N4IV	WENTWORTH	103.5	NC
K4USC	UNION		SC
KF4TNP	LEWISBURG	107.2	TN
KG4FZS	MADISONVILLE	141.3	TN
WD4PAX	MILAN		TN
447.1250 / 442.1250			
W4ZT	ATL/UNION CITY	100.0	GA
KD4GRU	BLUERIDGE	146.2	GA
KG4IWI	HENDERSON	88.5	NC
WT4IX	NEWEL	156.7	NC
WT4F	PICKENS		SC
KB4YFV	HILLSVILLE	103.5	VA
447.1500 / 442.1500			
KD4RTR	DORTON	167.9	KY
W4UNC	CHAPEL HILL	131.8	NC
N4SJW	CHARLESTON		SC
WJ9J	CHATTANOOGA		TN
KA4BNI	DRESDEN	107.2	TN
WD4RBJ	PULASKI	118.8	TN
KA4CBB	CHESTERFIELD		VA
447.1750 / 442.1750			
N4BZJ	DALTON	118.8	GA
K4NGQ	FRANKFORT	67.0	KY
KC4UBR	LINVILLE	136.5	NC
KE4GYN	ROXBORO	156.7	NC
WA4US	WILMINGTON		NC
KU4ZS	SPARTANBURG	123.0	SC
W4GMM	MEMPHIS	107.2	TN
W4VSP	WYTHEVILLE	103.5	VA
447.2000 / 442.2000			
KF4SKT	BLAIRSVILLE		GA
N3APR	DECATUR		GA
N5DWU	ELLISVILLE	167.9	MS
WA4US	WILMINGTON		NC
N7GZT	COLUMBIA	162.2	SC
WM4T	GRAY	100.0	TN
WA4BJY	OAKFIELD		TN
N4IFC	LYNCHBURG/T.ROW	103.5	VA
447.2250 / 442.2250			
WB6RTH	#ATLANTA	107.2	GA
WJ9J	RCKWOOD/OZONE		TN
NO4Q	WAVERLY	110.9	TN
447.2500 / 442.2500			
K4HAC	MADRAS	141.3	GA
N5DWU	ELLISVILLE	136.5	MS
KB4PQA	GREENVILLE		SC
WD4DES	CLEVELAND	118.8	TN
WA4PGI	COVINGTON	100.0	VA
447.2750 / 442.2750			
K4DDH	MACON	100.0	GA
N4ZCM	AUBURN		NC
KO0NTZ	LEXINGTON	146.2	NC
KF4CFO	ETOWAH	141.3	TN
KE4PFW	HENDERSON		TN
K8VKB	RICHWOOD	123.0	WV
447.3000 / 442.3000			
KW4KW	RINGGOLD	118.8	GA
WW4T	STATHAM		GA
KC4QPR	MORG/WALKER TOP	94.8	NC
KC4ED	SUMMERVILLE		SC
WA4UCE	COOKEVILLE	107.2	TN
KC4VDZ	RICHMOND	114.8	VA
447.3250 / 442.3250			
W4JLG	MABLETON		GA
WM4MD	MIDDLESBORO	67.0	KY
K2IMO	ELM CITY	88.5	NC
447.3500 / 442.3500			
WD4NHW	BALDWIN		GA
KG4PTO	COLLEGE PARK	OT	GA
KD4TAH	RUSSELLVILLE	136.5	KY
KF5TU	LAKE GASTON	100.H	NC
WA4YGD	LINCOLNTON		NC
KE4VNN	LYNCHBURG	136.5	VA
KF5TU	MCKINNEY, TX	100.0	ZZ
447.3750 / 442.3750			
KE4QFG	MARIETTA		GA
KE4YRE	SHELBYVILLE		KY
WA4PXV	HICKORY		NC
KG4CEO	CUMBERLAND FU	107.2	TN
447.4000 / 442.4000			
N4UER	WARM SPRINGS		GA
KF4JJD	GARRETT	79.7	KY
AA4XV	LATONIA		KY
WB4QHF	PICKENS/CSRS HD	127.3	SC
KA4BNI	HORNBEAK	107.2	TN
KF4YI	LYNCHBG/JACK MT.	107.2	VA
447.4250 / 442.4250			
K4SWS	EATONTON		GA
WK4E	KENNESAW	107.2	GA
KC4FIE	MADISONVILLE		KY
K4AE	LEXINGTON	107.2	NC
AF4ZJ	CHAT/WALDEN		TN
KA4BNI	JACKSON	107.2	TN
447.4500 / 442.4500			
W4CML	SNELLVILLE		GA
KD4CLR	LOUISVILLE AREA	151.4	KY
WA4TOG	HENDERSONVILLE		NC
N4LMR	RALEIGH		NC
KD4NED	CLEVELAND	88.5	TN
W8MOP	BLUEFIELD		VA
WA3KOK	CHESTERFIELD	107.2	VA
447.4750 / 442.4750			
K4NVG	LAVONIA	203.5	GA
W4RRG	LOOKOUT MT.	67.0	GA
W1MED	MARLOW	114.8	GA
KE4DGP	WILKESBORO	107.2	NC
AG4AN	FOREST		VA
447.5000 / 442.5000			
W4PSZ	PEACHTREE CITY	77.0	GA
KE4PMP	VIDALIA	88.5	GA

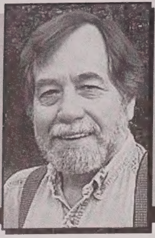
SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

KB4RYM	LOUISVILLE		KY
K4GFY	MOREHEAD		KY
KG4JIA	CHERRY MTN	94.8	NC
K4YNY	WILMINGTON	88.5	NC
WB4HAP	KNOXVILLE	103.5	TN
K1YJ	NASHVILLE	123.0	TN
W4CA	ROANOKE/POOR MT		VA
447.5250 / 442.5250			
N4XQM	ATLANTA	110.9	GA
KY4JD	FORT WRIGHT	123.0	KY
N2QJI	CONCORD	94.8	NC
WB3T	WYTHEVILLE	103.5	VA
447.5500 / 442.5500			
WB4JEH	CONYERS	151.4	GA
WD4ELX	LOUISVILLE		KY
WA4TOG	ASHEVILLE		NC
K1BUD	PITTSBORO		NC
W4RAT	RICHMOND	127.3	VA
447.5750 / 442.5750			
WA4BPY	CUMMING	79.9	GA
AE4LW	MADISONVILLE	100.0	KY
W4MLU	RALEIGH		NC
KU4RT	HENDERSON		TN
NU5O	MEMPHIS	77.0	TN
WB4IVB	JONESVILLE	100.0	VA
447.6000 / 442.6000			
KD4FOC	DUBLIN	77.0	GA
WA4OKJ	MARIETTA	100.0	GA
KD4ADJ	MT STERLING		KY
WD4NWV	ANDRWS/ROBINSVL	151.4	NC
WA4PXV	VALDESE		NC
N8ITF	SPRINGFIELD		TN
K4ARO	PETERSBURG		VA
K4ARO	ROANOKE		VA
447.6250 / 442.6250			
W4ABP	GAINESVILLE	131.8	GA
KD4CDX	HARLAN	100.0	KY
KE4KIV	NEWTON		NC
WB4EPG	MEMPHIS		TN
447.6500 / 442.6500			
KE4FHN	DANIELSVILLE		GA
W4RRG	LOOKOUT MT	100.0	GA
KD4GEU	ASHEVILLE		NC
N4IBM	CHARLOTTE	88.5	NC
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
447.6750 / 442.6750			
KE4PVE	ATLANTA	100.0	GA
KD4BOH	ROCKPORT	77.0	KY
KA2NAX	MORAVIAN FALLS	88.5	NC
W4ATC	RALEIGH	100.0	NC
WA4MPZ	BLUFFTON	100.0	SC
KA4BNI	CONCORD	107.2	TN
447.7000 / 442.7000			
KC4ZGN	ELLIJAY	77.0	GA
W4MAZ	MACON	97.4	GA
K4NLX	SAVANNAH		GA
KC4YOT	GASTONIA	88.5	NC
N4FV	GREENVILLE		TN
WA4PZN	SHELBYVILLE		TN
W7CP	ROANOKE		VA
447.7250 / 442.7250			
KE4QFG	MARIETTA/ATL		GA
KB4YJ	LOUISVILLE	151.4	KY
N5LRQ	VOSSBURG	167.9	MS
AA4LB	SIMPSONVILLE	100.0	SC
W4RDM	COLUMBIA		TN
KE4MBR	DECATUR	141.3	TN
KF4RMT	VESTA	107.2	VA
KB8PCW	GILBERT		WV
447.7500 / 442.7500			
N3DAB	JASPER	141.3	GA
KD4HEY	ABBEVILLE	162.2	SC
KE4SWV	CASTALIAN SPRING	123.0	TN
WD4KZK	ROANOKE/MILL MT	107.2	VA
447.7750 / 442.7750			
KC4FIE	MADISONVILLE		KY
KG4LWG	GASTONIA	123.0	NC
KF4CDR	CHARLESTON		SC
AE4PZ	MOUNTAIN REST	127.3	SC
KE4CIF	PULASKI		VA
447.8000 / 442.8000			
N4NFP	ATL/MARIETTA		GA
N4AAD	YADKINVILLE	100.0	NC
WD4LUR	LAKE CITY	100.0	TN
KA4BNI	SELMER	107.2	TN
KB4MIC	GUM SPRING		VA
447.8250 / 442.8250			
W1CP	CLAYTON	162.2	GA
KC4ENL	HAPEVILLE	167.9	GA
WF4G	MEMPHIS		TN
KT4PN	ONEIDA		TN
447.8500 / 442.8500			
WB4HJG	LAWRENCEVILLE	82.5	GA
AG4AZ	BREVARD		NC
KA4IXK	ROANOKE/POOR MT		VA
WB8NSL	PENNSBORO	103.5	WV
447.8750 / 442.8750			
K4RFL	ATLANTA/MARIETTA	100.0	GA
W3LAP	COCHRAN	77.0	GA
W4GSO	GREENSBORO	88.5	NC
KC4WHL	HARRIMAN	136.5	TN
KF4OCK	LORETTO	203.5	TN
447.9000 / 442.9000			
KF4RLZ	LAWRENCEVILLE	123.0	GA
WR4MG	WARNER ROBINS		GA
W4CMR	IRVINE		KY
WW4DC	THOMASVILLE	88.5	NC
N4WT	CHATT/HIXSON		TN
KA1FFO	CLARKSVILLE	110.9	TN
KE4CES	JACKSON	114.8	TN
W4MT	NEWPORT NEWS	100.0	VA
447.9250 / 442.9250			
KC4YHM	EATONTON		GA
WB4RL	LITHIA SPRINGS	100.0	GA
K4CH	LEXINGTON	107.2	NC
N5YKR	LEXINGTON	123.0	TN
WD4OAR	WHITE OAK MT	100.0	TN
KB8QKM	CHARLESTON	71.9	WV
447.9500 / 442.9500			
AA4AI	ATHENS	179.9	GA
N4XGI	ST SIMONS ISLAND	131.8	GA
W4ERT	TAYLORSVILLE	151.4	NC
KB9EBA	LENOIR CITY		TN
KC4YLL	PARIS	123.0	TN
AB4FU	LYNCHBURG		VA
W4VB	NORFOLK	131.8	VA
447.9750 / 442.9750			
WA4YNZ	ATLANTA		GA
WA4YNZ	#ROSWELL		GA
AG4TY	WAYNESBURG		KY
KF4DAR	KERNERSVILLE	107.2	NC
NK4W	LITTLE MT	162.2	SC
KB8KSP	ABINGDON	100.0	VA
448.0000 / 443.0000			
W4DRC	CHATSWORTH		GA
KE4ZRT	DOUGLAS	141.3	GA
KT4GB	BARDSTOWN		KY
KD4DVI	PADUCAH	179.9	KY
KI4RK	GOLDSBORO	100.0	NC
KW4LS	LEBANON	100.0	TN
W4ZJM	MEMPHIS	*#	TN
KM4X	WHITETOP MT	103.5	VA
N8HZ	HUNTINGTON		WV
W3PS	LINWOOD, PA	156.7	ZZ
448.0250 / 443.0250			
W4CML	ATLANTA	127.3	GA
KE4OOL	LEXINGTON	123.0	KY
WB4IKY	GIBSONVILLE	107.2	NC
N4UAG	KNOXVILLE		TN
KA8YEZ	WHEELING	77.0H	WV
448.0500 / 443.0500			
NE1H	SNELLVILLE		GA
W1WBT	SAURATOWN MTN	136.5	NC
N8FWL	BECKLEY	123.0	WV
W3PS	CHESTER, PA	156.7	ZZ
448.0750 / 443.0750			
WA4EOC	CANTON		GA
WX4EMA	MACON	156.7	GA
WR4BEG	SOPHIA/RANDLEMAN		NC
KA4AZQ	KNOXVILLE	100.0	TN
KC8SDN	FLATWOODS	123.0	WV
448.1000 / 443.1000			
N4KHQ	DAHLONEGA	100	GA
N4WJS	OWENSBORO	110.9	KY
KE4QOX	SAURATOWN MT	88.5	NC
KI4D	ROCK HILL	162.2	SC
KF4TNP	BRICK CHURCH	167.9	TN
KA4JXT	MEMPHIS	107.2	TN
KN4YM	POWHATAN		VA
KE4QOX	BECKLY/OAK HILL	107.2	WV
448.1250 / 443.1250			
KG4PUW	STOCKBRIDGE	100.0	GA
KU4ML	FOSTER		KY
KB4PQA	CRAB CREEK TWP		NC
WA4NNA	RALEIGH		NC
KT4OL	CHATTANOOGA		TN
KT4OL	CHATTANOOGA		TN
KC4PRD	GOODLETTSVILLE	107.2	TN
KA4JXT	HICKORY VALLEY	107.2	TN
KA4JXT	MEMPHIS		TN
WB3T	MARION	103.5	VA
448.1500 / 443.1500			
KF4XH	BYRON		GA
W4PME	ROSWELL/BELL	100.0	GA
KD4PBC	MIDDLESBORO	146.2	KY
W4HG	SALISBURY	136.5	NC
KD4PBC	GATLINBURG	146.2	TN
KD4PBC	TRI-CITIES	146.2	TN
K8MHR	ST. ALBANS		WV
448.1750 / 443.1750			
K4AIS	CARTERSVILLE	100.0	GA
KC4COV	FLORENCE	131.8	KY
KD4HLH	LAURENS	146.2	SC
KG4GCZ	MT PLEASANT	107.2	TN
WG8S	PATRICK SPRINGS		VA
448.2000 / 443.2000			
K4YC	IVEY	88.5	GA
KD4APP	PINE LOG MT	103.5	GA
KC4FWC	STANFIELD	77.0	NC
KC4WDI	YOUNGSVILLE	88.5	NC
W4WC	GREENEVILLE	100.0	TN
W4BS	MEMPHIS	107.2	TN
KB4YKV	AMELIA		VA
448.2250 / 443.2250			
WA4DIW	JONESBORO		GA
KD4TAH	FRANKLIN		KY
KS4TO	WADDY		KY
W8EMX	HUNTERSVILLE	110.9	NC
N4ZCM	RALEIGH		NC
W8LG	BECKLEY/BOLT		WV
448.2500 / 443.2500			
KC4JNN	BISKEY MTN	100.0	GA
KJ4VF	DORTON		KY
KJ4VF	MOREHEAD	100.0	KY
N4JEX	CHINA GROVE	136.5	NC
448.2750 / 443.2750			
KC4KLW	ROCKMART	179.9	GA
KF4TLA	ASHEVILLE	103.5	NC
WA4WTX	ROUGEMNT/RED MT	100.0	NC
WA4AWI	LEBANON	107.2	TN
448.3000 / 443.3000			
WW4GA	ATHENS		GA
KB5DZJ	WIGGINS	167.9	MS
KB4TOH	COLUMBIA	131.8	NC
AI4M	FOREST CITY	114.8	NC
KA7UEC	COLLIERVILLE	107.2	TN
WA4KJH	GATLBG/COVE MT	127.3	TN
WS8L	CHARLESTON	123.0	WV
448.3250 / 443.3250			
N4JMD	STOCKBRIDGE		GA
WA4CMO	FRANKFORT		KY
KF4IXK	KERNERSVILLE	131.8	NC
WB3T	DISMAL PEAK	103.5	VA
448.3500 / 443.3500			
N4YYD	FT. MT/CHATSWTH	71.9	GA
K4ULW	LOUISVILLE SW		KY
W5CJR	PETAL		MS
N4JEX	KANNAPOLIS	136.5	NC
W4IQQ	GRNVLE/PARIS MT		SC
WA4AWI	DEASON	107.2	TN
K4GX	ROGERSVILLE		TN
N8LHL	ROCKPORT	123.0	WV
KA1OKQ	PETERBORO, NH	110.9	ZZ
448.3750 / 443.3750			
KC4AQS	JASPER	100.0	GA
W1IFL	RALEIGH		NC
W4RCT	INDEPENDENCE	103.5	VA
KC8SDN	RICHWOOD	123.0	WV
448.4000 / 443.4000			
WB4GWA	CONCORD	118.8	GA
K4XYZ	BUCKHORN LAKE	103.5	KY
N0SU	BRYSON CITY	151.4	NC
AD4DN	WILMINGTON	88.5	NC
AC4WW	AIKEN	107.2	SC
WA4QWW	MEMPHIS		TN
448.4250 / 443.4250			
KD4CPO	BRUNSWICK		GA
AE4JO	ETOWAH VALLEY	103.5	GA
KB4MDE	JASPER		GA
KD4RTR	MILLARD		KY
WA1YYN	RES. TRIANGLE PK	156.7	NC
448.4500 / 443.4500			
WC4RAV	COBB COUNTY	103.7	GA
KB4VAK	HIGH PT/LOOKT MT	77.0	GA
AE4NU	COX'S CREEK	151.4	KY
KZ4G	FLATWOODS	107.2	KY
KC5LCW	GAUTIER	123.0	MS
N5WXD	WEST POINT		MS
N4VOZ	STATESVILLE		NC
KE4PJW	NASHVILLE	107.2	TN
KC4RBA	LYNCHBURG	186.2	VA
448.4750 / 443.4750			
W4EEE	BOGART		GA
KC4COV	BEAVERLICK	131.8	KY
KE4UIU	CANTON	156.7	NC
W4UNC	CHAPEL HILL	131.8	NC
WZ4SC	FORT MILL		SC
KB8YDD	RICHWOOD		WV
W4VM	HUNTSVILL, AL		ZZ
448.5000 / 443.5000			
N4MTA	MARIETTA		GA
WD9EQC	LOUISVILLE		KY
KF4BRO	MAYSVILLE	123.0	KY
WB4UBY	META		KY
W5SAR	WAYNESBORO		MS
AB4JJ	WEST JEFFERSON	107.2	NC
N5CWH	LEESVILLE	162.2	SC
KD4CWB	KNOXVILLE		TN
448.5250 / 443.5250			
N4PQR	KNOXVILLE	114.8	GA
KC4KLW	ROME	179.9	GA
KD4EVB	BURLINGTON	107.2	KY
N4EUX	LENOIR/CAJAH MT		NC
KD4MJO	SOUTH HILL	100.0	VA
448.5500 / 443.5500			
KK4IN	DACULA		GA
KE4WLP	GRIFFIN		GA
N4HZX	GRAEFENBURG		KY
W5SAR	WAYNESBORO		MS
KC4XE	WILKESBORO	94.8	NC
WB4LRD	CHATTANOOGA		TN
N4ARI	WILLIAMSBURG	100.0	VA
448.5750 / 443.5750			
KD4NTF	CEDARTOWN	107.2	GA
WA4SSJ	JERSEY	103.5	GA
NU5O	SOUTHAVEN	77.0	MS
WA4PXV	AIR BELLOWS GAP		NC
KA6UHV	COLLEGEDALE	131.8	TN
W4LYR	LEBANON	100.0	TN
KC8AUY	RICHWOOD		WV
448.6000 / 443.6000			
KA5WZY	ATLANTA	146.7	GA
KA4UHL	NANCY	100.0	KY
N4DWU	MT MITCHELL	114.8	NC
W4TLB	BIG SANDY	114.8	TN
KC8PFI	CEREDO		WV
448.6250 / 443.6250			
K4MDS	GRAY		GA
KF4OYP	JASPER	100.0	GA
KF4NTQ	GEORGETOWN		KY
AA5RZ	JACKSON, EAST		MS
W4EUS	RES. TRIANGLE PK		NC
KE4EAN	COWPENS	136.5	SC
KA7UEC	COLLIERVILLE	107.2	TN
AD4QG	EVA		TN
KC4MJN	JAMESTOWN	100.0	TN
WZ8E	BLUEFIELD	100.0	WV
KC8SDN	RICHWOOD	123.0	WV
448.6500 / 443.6500			
W4CML	ATLANTA	123.7	GA
N4WJS	OWENSBORO	110.9	KY
W5NRU	LAUREL	100.0	MS
K4AIH	ANDRWS/ROBINSVL		NC
KD4WAR	BURNSVILLE		NC
KG4BTN	GREENSBORO	88.5	NC
WA4AXH	NOLENSVILLE		TN
KG4NJA	NASA LANGLEY	173.8	VA
KC8SDN	CRAIGSVILLE	123.0	WV
448.6750 / 443.6750			
N4GWO	BARNESVILLE		GA
K4WOC	CALHOUN	100.0	GA
KD4FRP	CROWDER'S MT		NC
AD4LR	PARIS		TN
KD4IBW	SEVIERVILLE	100.0	TN
K4YD	BENT MT	107.2	VA
448.7000 / 443.7000			
W4TIY	DALLAS		GA
KY4KY	BROOKS	151.4	KY
K5PN	HATTIESBURG	136.5	MS
N5WDG	RIDGELAND	77.0	MS
KE4QOX	KVILLE/H POINT	103.5	NC
WA4LBT	LOCUST		NC
N4JEH	NASHVILLE	107.2	NC
K4VVM	BARTLETT	107.2	TN
AG4VW	CENTERVILLE	100.0	TN
KB4OTK	LAFOLLETTE		TN
KB8UJG	PRINCETON	123.0	WV
448.7250 / 443.7250			
KB2DZA	CONYERS	77.0	GA
KE5LT	PICAYUNE	179.9	MS
K4GWH	GRAHAM	156.7	NC
KC4KPJ	CLOVER	127.3	SC
W1ARN	NASHVILLE	107.2	TN
KG4KIJ	SWEETWATER		TN
N8SNY	WELCH		WV
448.7500 / 443.7500			
K4GO	COVINGTON	146.2	GA
KK4WH	WHITESBURG	107.2	KY
KC4ZTI	GASTONIA/CRWDR		NC
WB4EDS	ALAMO		TN
WA4OHX	HAMPTON	100.0	VA
KC3FB	PATRICK SPRINGS	77.0	VA
448.7750 / 443.7750			
N4YF	SUGAR HILL	82.5	GA
KF4INN	VERSAILLES		KY
WB4SRV	CLAREMONT	118.8	NC
KD4JFN	HAW RIVER	107.2	NC
KF4Y	LAURENS	141.3	SC
KA4MHJ	SPENCER	123.0	TN
448.8000 / 443.8000			
N4NFP	ATLANTA/MARIETTA	151.4	GA
K4MSU	MURRAY	110.9	KY
N5IAT	NATCHEZ		MS
KC4QZL	MORGANTON		NC
W4HNK	MT PLEASANT	123.0	SC
KA4AZQ	KNOXVILLE	100.0	TN
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
W4POX	PORTSMOUTH		VA
KA8OTX	OAK HILL		WV
448.8250 / 443.8250			
KD4HPD	STONE MTN	123.0	GA
KD4EVB	FALMOUTH	107.2	KY
K4AVY	PRESTONSBURG	127.3	KY
N5ZNS	GLOSTER		MS
KC4FWC	#ROCKINGHAM	77.0	NC
KC4KRM	SHELBYVILLE		TN
KF4RMT	MARTINSVILLE	107.2	VA
WB4KZI	PETERSBURG		VA
448.8500 / 443.8500			
K4PLM	#WALESKA	192.8	GA
KC4YOZ	DALLAS CHLT	100.0	NC
WA4US	WILMINGTON		NC
N4ULM	FRANKLIN		TN
KE4OVN	LANEVIEW	107.2	TN
KQ4I	DANVILLE		VA
KB8TGK	HUNTINGTON	88.5	WV
448.8750 / 443.8750			
KD4LXT	ATLANTA		GA
KC4KPW	PINEY KNOB	103.5	NC
WO4U	CROSSVILLE	88.5	TN
KD4KPV	MCKENZIE		TN
WC4EOC	NO CITY LISTED		TN
W4DUM	WILLIS		VA
W8SP	FAIRMONT		WV
448.9000 / 443.9000			
K4RHJ	FLOWERY BRANCH	131.8	GA
KC4KZT	DAVID	167.9	KY
W4UA	HIGH POINT		NC
W4GWD	GREENWOOD	107.2	SC
KD4HII	CHATTANOOGA		TN
W4KOC	WHITE HOUSE	107.2	TN
448.9250 / 443.9250			
KQ4XL	MONROE	123.0	GA
W4BAB	RINGGOLD		GA
N4EQT	LAWRENCEBURG	107.2	KY
KE4KNZ	MCEWEN	107.2	TN
K4DHT	MOUNTAIN CITY	103.5	TN
KF4AGO	SOUTH BOSTON		VA
448.9500 / 443.9500			
KA4UFM	DECATUR	110.9	GA
W4LJM	CANE VALLEY		KY
N5ZDF	HAZLEHURST	100.0	MS
KD4OWV	CHARLOTTE		NC
WA1YYN	HILLSBOROUGH	114.8	NC
WA4US	WILMINGTON		NC
KD4OBX	KNOXVILLE		TN
N4ER	MEMPHIS		TN
W4UOT	WINCHESTER	107.2	TN
448.9750 / 443.9750			
KB4NPO	REX		GA
K4TDO	HAZARD	103.5	KY
N4KWT	LOUISVILLE	100.0	KY
WA4WGY	MAYODAN		NC
N4VDE	LIBERTY	103.5	SC
WR3S	LAVERGNE		TN
KA4WJS	ROCKWOOD		TN
N8FIP	WESTON		WV
449.0000 / 444.0000			
WB4QDX	LAWRENCEVILLE	127.3	GA
WD4AFY	#SAVANNAH		GA
AD4RU	IRVINE		KY

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

KG5YV	CLINTON	100.0	MS
K4JEQ	HICKORY		NC
KI4RK	SELMA		NC
W4ULH	FLORENCE		SC
WD4BKY	GALLATIN		TN
KD4CWB	KNOXVILLE	100.0	TN
W4CAR	CHESAPEAKE	162.2	VA
N4TZE	LYNCHBURG	103.5	VA
KC8IT	MULLENS		WV
449.0250 / 444.0250			
W4CML	LAWRENCEVILLE	127.3	GA
AE4PO	WAYCROSS	141.3	GA
KD4JFN	HIGH POINT	107.2	NC
WC4EOC	FRANKLIN		TN
K4CRS	KINGSTON		TN
K4RDK	MEMPHIS		TN
WB3T	ABINGDON	103.5	VA
449.0500 / 444.0500			
N4NEQ	ATLANTA/MARIETTA	151.4	GA
KE4NLL	SALYERSVILLE	127.3	KY
KB4PTJ	WILLIAMSBURG	100.0	KY
N4JDW	WILMINGTON	88.5	NC
W1WBT	LAKE WYLIE	136.5	SC
N4PYI	NASHVILLE	107.2	TN
WB3T	FANCY GAP	103.5	VA
KB4OLM	STUARTS DRAFT		VA
449.0750 / 444.0750			
W4FWD	CARROLLTON	131.8	GA
KB8SBN	INDEPENDENCE	110.9	KY
KD4BOH	ROCKPORT	77.0	KY
K4CCR	ANDSN MT/DENVER	88.5	NC
N4JDW	BURGAW	88.5	NC
WA4TCC	SCOTLAND NECK	156.7	NC
KG4JJB	LEWISBURG	107.2	TN
KC4PDQ	MARYVILLE	100.0	TN
KF4ATY	MEMPHIS	107.2	TN
KD4TBC	GRETNA/SMITH MT	123.0	VA
K8OJC	HURRICANE		WV
449.1000 / 444.1000			
WR4CW	ATLANTA/GLENRI	100.0	GA
W4WSM	BOWLING GREEN		KY
N4UL	LOUISVILLE	173.8	KY
KB5BRZ	MERIDIAN	131.8	MS
WR4AGC	DURHAM		NC
KC4AC	LANCASTER		SC
W4AM	CHATTANOOGA		TN
KE4FH	JOHNSON CITY		TN
KA4JXT	MEMPHIS		TN
KE4CKJ	STAUNTON/EL KNOB	131.8	VA
KB4ZIN	WILLIAMSBURG		VA
N8ILO	PARKERSBURG (OH)		WV
449.1250 / 444.1250			
AF4PX	KINGSTON		GA
KE4PVE	PENDERGRASS	100.0	GA
KB8QLC	LEXINGTON	88.5	KY
WB4GUG	MCLEANSVILLE		NC
KC4ECD	LAFAYETTE	107.2	TN
KA4JXT	MEMPHIS		TN
N8LVE	BECKLEY		WV
N8RCG	KEYSER	103.5	WV
449.1500 / 444.1500			
W4PME	ATLANTA/BELL	100.0	GA
WB4IVB	MIDDLESBORO	100.0	KY
WD5BJT	CLERMONT HARBR	77.0	MS
WB5YCR	NEW ALBANY		MS
K4JDR	CLAYTON	100.0	NC
AG4EI	GASTONIA/CRWDR		NC
W4GL	SUMTER	123.0	SC
KE4LQY	CHATTANOOGA		TN
AF4TZ	NASHVILLE	107.2	TN
KI4ZR	LEXNGTN/ROCK MT		VA
KA1OKQ	PEMBROKE, NH		ZZ
449.1750 / 444.1750			
KE4PVE	COVINGTON	100.0	GA
KC4COV	COVINGTON	131.8	KY
W4FBC	LILLINGTON	118.8	NC
W2GLJ	GERMANTOWN		TN
KC4NNN	KNOXVILLE		TN
K4NRW	ROANOKE	103.5	VA
N8FMD	CLARKSBURG	103.5	WV
449.2000 / 444.2000			
WA4DB	#GAINESVILLE	107.2	GA
KR4PF	MARION	100.0	KY
KD4RTR	PIKEVILLE		KY
WB4YNF	AHOSKIE		NC
KE4QEA	#KING/SAURATOWN	100.0	NC
WA4US	WILMINGTON		NC
KF4GHC	COLUMBIA	156.7	SC
KD4HII	CHATTANOOGA		TN
K4MFD	GREENEVILLE	173.8	TN
N4ARK	NASHVILLE		TN
WB4VWR	ENON		VA
N8ZVK	FLATWOODS		WV
449.2250 / 444.2250			
KE4SJO	WOODSTOCK		GA
KF4RBD	RINEYVILLE	151.4	KY
K4GWH	GREENSBORO	146.2	NC
N4ARK	NASHVILLE	114.8	TN
WV8AR	CHARLESTON	123.0	WV
449.2500 / 444.2500			
W4BOC	DECATUR		GA
KF4DC	GLASGOW/CVCTY		KY
WA4KNI	HENDSVL/BERWLW		NC
N4EWS	LOUISBURG	88.5	NC
K4SER	WILLIAMSTON	131.8	NC
WA4PAJ	BARTLETT		TN
WQ4E	GREENBRIER		TN
WA4TFZ	CHARLOTTESVILLE	151.4	VA
WG4R	MEADOWS OF DAN	103.5	VA
N8ZAR	BUCKHANNON		WV
449.2750 / 444.2750			
K4JLG	CORNELIA	100.0	GA
K4DDH	GRAY	100.0	GA
KF4IFC	CORBIN	79.7	KY
KU4MJ	DAWSON SPRINGS		KY
NC4BJ	BUIES CREEK	131.8	NC
W4NC	WINSTON-SALEM		NC
W4GZX	CLEVELAND		TN
WA4AXH	LEBANON		TN
W4RDF	ENON	114.8	VA
KC8CSE	DUNMORE	123.0	WV
449.3000 / 444.3000			
KC4GZX	ATHENS/CRAWFORD	127.3	GA
KC4YNY	HOGANSVILLE		GA
KD4RTR	ELKHORN CITY	167.9	KY
KG4JNM	LOUISVILLE	156.7	KY
N4DRL	BYHALIA		MS
KC5RC	HEIDELBERG	100.0	MS
WA4VTX	ELIZABETH CITY	131.8	NC
W4ZO	MONROE	100.0	NC
N4MNH	CHARLESTON		SC
WB4GBI	KNOXVILLE		TN
WA4BZU	NASHVILLE	107.2	TN
K4BW	ACCOMACK	156.7	VA
KI4ZR	LEXINGTON		VA
W4XE	HUNTSVILLE, AL		ZZ
449.3250 / 444.3250			
KF4BMG	MARIETTA	79.7	GA
KC4FWC	BLADENBORO	77.0	NC
KF4AUF	HOLLY SPRINGS	100.0	NC
W4NYR	SHELBY		NC
WA4BZU	CLARKSVILLE	107.2	TN
KB4KSL	KNOXVILLE		TN
WB3T	ROANOKE	103.5	VA
KA8ZXP	GLENVILLE		WV
449.3500 / 444.3500			
W4CBA	GAINESVILLE	131.8	GA
KE4PVE	NEWNAN	100.0	GA
WR4SG	VALDOSTA	141.3	GA
K4CO	WALTON	123.0	KY
K4KAY	CHARLOTTE	118.8	NC
WB4IKY	GIBSONVILLE	107.2	NC
KR4LO	GRANTSBORO		NC
WD4BKY	GALLATIN	114.8	TN
KD4CLA	PIGEON FORGE	156.7	TN
N4CH	BEDFORD		VA
WB8YST	CHARLESTON	107.2	WV
449.3750 / 444.3750			
KB4IZF	JASPER	103.5	GA
KD4DAR	PIKEVILLE		KY
KB5HAV	PEARL	88.5	MS
N4DTR	FRANKLIN	131.8	NC
KB4WGA	HENDERSON	100.0	NC
KB4YTM	HUNTINGDON		TN
KR4BT	SPARTA	123.0	TN
N4OWU	FANCY GAP	107.2	VA
449.4000 / 444.4000			
WB4ULJ	HAMILTON		GA
WB4HJG	LULA	71.9	GA
AC4VV	SHEPHERDSVILLE		KY
KC4COV	WITHAMSVILLE	131.8	KY
K4MN	FAYETTEVILLE	100HZ	NC
WA4KOG	MEMPHIS		TN
N4PYI	MT JULIET		TN
K4EAJ	OAK RIDGE	82.5	TN
N8LVE	ALDERSON/SAM BLK	100.0	WV
N8HON	MADISON, VA		ZZ
449.4250 / 444.4250			
K4PE	HELEN	127.3	GA
KD4EVB	DRY RIDGE	107.2	KY
KF4QZN	MORGANTOWN	179.9	KY
N4HAJ	FOUNTAIN	88.5	NC
NC4UC	MONROE	94.8	NC
KC4NNN	KNOXVILLE		TN
WA4ISI	ALTAVISTA	100.0	VA
KB8TJH	SHIRLEY		WV
449.4500 / 444.4500			
W4DOC	ATLANTA	146.2	GA
KO4OT	SIMPSONVILLE	100.0	KY
KD5AHI	ABERDEEN		MS
KB5LCL	JACKSON	141.3	MS
W4CQ	CHARLOTTE		NC
WR4AGC	HILLSBOROUGH	100.0	NC
N4DTR	WAYNESVILLE		NC
WA4US	WILMINGTON		NC
W4CAT	GALLATIN	107.2	TN
WJ9J	SODDY DAISY		TN
W8MOP	BLUEFIELD		VA
449.4750 / 444.4750			
KD4GEY	FOLKSTON		GA
N4CLA	SWEAT MT/MARIETT		GA
KF4QZN	MAMMOTH CAVE	179.9	KY
AD4BI	PIKEVILLE		KY
KG4BTN	GREENSBORO	107.2	NC
N1GMV	ZEBULON	88.5	NC
N4ZKR	SUMMITVILLE	107.2	TN
AD4ZK	NORFOLK	127.3	VA
449.5000 / 444.5000			
W4MM	ALBANY		GA
KD4GPI	ATLANTA	110.9	GA
N4BZJ	DALTON	118.8	GA
KD4GMH	MANCHESTER	103.5	KY
W5LRG	MERIDIAN	107.2	MS
W4PAR	LEXINGTON	107.2	NC
N4JEH	TARBORO	100.0	NC
K4NOC	BISHOPVILLE	123.0	SC
KE4CCB	BLUFF CITY	77.0	TN
K4DAV	COOKEVILLE		TN
N4WAH	MEMPHIS		TN
K4CQ	LYNCHBRG/TOB MT	136.5	VA
449.5250 / 444.5250			
W4GR	SNELLVILLE	82.5	GA
KJ4VF	GRETHEL		KY
N5NNI	NEW HEBRON		MS
W4RNC	RALEIGH	82.5	NC
WA4ZRS	WAXHAW	94.8	NC
N4LV	MYB BCH/BRKSVIL		SC
KD4IBW	KNOXVILLE	100.0	TN
WA4BGK	NASHVILLE	107.2	TN
449.5500 / 444.5500			
WB4JEH	CONYERS	151.4	GA
K4DC	LEWISPORT		KY
KC4DUU	LEXINGTON		KY
K4JDR	BENSON	100.0	NC
N4GAS	GASTONIA/SPCR MT		NC
KA4BQM	ROANOKE RAPIDS	192.8	NC
KG4BZN	WALTERBORO	123.0	SC
NQ4Y	COOKEVILLE	107.2	TN
WF4Q	MCNAIRY	107.2	TN
WA4PCD	NASHVILLE		TN
KB4WTP	COPPER RIDGE	103.5	VA
W4QR	HAMPTON	167.9	VA
K4CQ	WINTERGREEN	136.5	VA
449.5750 / 444.5750			
W4SCR	DOUGLASVILLE	88.5	GA
N4MVY	PHELPS		KY
KC5CLM	PORT GIBSON	141.3	MS
KC4FWC	BOONE/RICH MT	77.0	NC
W4BAD	DURHAM	88.5	NC
N4HAJ	KINSTON	88.5	NC
K2PJ	MYRTLE BEACH	85.4	SC
W4BBB	KNOXVILLE/RACK	100.0	TN
WA4WCK	NASHVILLE		TN
449.6000 / 444.6000			
W4PSZ	FAYETTEVILLE	77.0	GA
WA4NKL	QUITMAN	127.3	GA
KF4WMM	BRUSHY FORK	88.5	KY
N4NMC	LOUISVILLE	151.4	KY
KC4FIE	MADISONVILLE		KY
WA4SJH	SPRINGFIELD		KY
KB5CO	JACKSON	100.0	MS
W4BFB	CHARLOTTE	100.0	NC
NO4EL	OXFORD		NC
KT4YW	NO. CHARLESTON		SC
WS4S	COOKEVILLE	107.2	TN
WA4AUX	PROSPECT	118.8	TN
KA8TCF	WESTON		WV
449.6250 / 444.6250			
K4EDN	BONAIRE	82.5	GA
W4CBA	CUMMING	123.0	GA
KC5BMJ	KINGSLAND	118.8	GA
W1BPP	MOULTRIE	123.0	GA
KB4QFL	HAWESVILLE		KY
KE4ISW	RICHMOND	192.8	KY
AB5MU	NETTLETON	192.8	MS
N5OCF	RICHTON		MS
WB4DVN	LUMBERTON		NC
WD4EOG	CLEMSON UNIV.	156.7	SC
WT4E	COLLIERVILLE	107.2	TN
KD4TUD	JEFFERSON CITY		TN
WA4TOA	NASHVILLE	107.2	TN
WZ8E	BLUEFIELD		VA
KF4LWH	SOUTH BOSTON		VA
449.6500 / 444.6500			
K4YC	IVEY		GA
N4IBW	SMYRNA		GA
WB4FUR	STENNIS SPC CEN		MS
N5NBG	WALLS		MS
NE4J	MIDDLESEX	179.9	NC
KJ4HF	SALISBURY	88.5	NC
WA4US	WILMINGTON		NC
N4UHF	LAKE MURRAY		SC
WB4NKM	GREENEVILLE	100.0	TN
W4CAT	SHRT MT/MURFREB	107.2	TN
WD4BSB	CHRISTIANSBURG	107.2	VA
N4EHJ	RICHMND/CHLTVL		VA
449.6750 / 444.6750			
KC4CBQ	HIAWASSEE	186.2	GA
KN4YZ	TYRONE/PTC	77.0	GA
KC4VYX	ROBINSON CREEK		KY
KF4AWA	SALVISA	203.5	KY
N5PS	GREENVILLE	100.0	MS
W4WBT	CHARLOTTE		NC
KE4JDP	#JACKSONVILLE	88.5	NC
KD4RAA	RALEIGH	100.0	NC
W4GS	MYR BCH/CONWAY	85.4	SC
WA4PCD	NASHVILLE		TN
WD4MIZ	NORFOLK	107.2	VA
K4IJ	PEARISBURG	103.5	VA
AB8WB	GASSAWAY	123.0	WV
449.7000 / 444.7000			
WB4SBT	BYRON	103.5	GA
WD4LUQ	DALLAS	77.0	GA
KF4BJM	VALDOSTA	141.3	GA
WB4JM	BOWLING GREEN	136.5	KY
AD5IT	GRENADA	107.2	MS
NC5Y	JACKSON		MS
KD4BGD	LUMBERTON	114.8	NC
N4JEH	ROCKY MOUNT	107.2	NC
AE4GA	STATESVILLE	94.8	NC
AG4UW	CENTERVILLE	107.2	TN
KF4VDX	MARYVILLE	127.3	TN
N4ZKR	PALMER	107.2	TN
K4AU	DANVILE/WHT OAK		VA
N4WWB	GATE CITY		VA
WB8CQV	HERNSHAW	203.5	WV
K8LG	MORGANTOWN		WV
449.7250 / 444.7250			
KS4QM	SUMMERVILLE	123.0	GA
KD4AOZ	WATKINSVILLE	123.0	GA
KY4K	HENDERSON	203.5	KY
KE4ISR	LEXINGTON		KY
W4ZCD	HICKORY FLAT	179.9	MS
KC4FWC	BLADENBORO	77.0	NC
KD4MMP	WINSTON-SALEM	107.2	NC
KC4KPJ	ROCK HILL	127.3	SC
WA4AKM	FRANKLIN	107.2	TN
WB0TMC	JACKSON	107.2	TN
N4CKB	SEVIERVILLE	123.0	TN
KF8FO	LEWISBURG	103.5	WV
449.7500 / 444.7500			
KC4ELV	CONYERS	162.2	GA
N4ZRF	LAKEMONT		GA
KC8ERN	#ASHLAND	88.5	KY
KE4AIF	HOPKINSVILLE	103.5	KY
WB9SHH	MONTICELLO		KY
KD5GVU	STARKVILLE		MS
NC4GC	GASTONIA		NC
KD4JFN	PITTSBORO	146.2	NC
K4TC	HENDERSON		TN
KF4VWJ	HIXSON	100.0	TN
N4PYI	MT JULIET	156.7	TN
449.7750 / 444.7750			
N4NEQ	ATLANTA/MARIETTA	151.4	GA
N4MXC	COCHRAN		GA
N4IWZ	ALLEN	123.0	KY
KC4UPE	NICHOLASVILLE	167.9	KY
K4JDR	CARY	100.0	NC
KR4EX	OLD FORT		NC
WA4AKM	GALLATIN	107.2	TN
KF4UCI	#CHARLOTTEVILLE		VA
WD4KZK	SLINGS GAP	107.2	VA
449.8000 / 444.8000			
WA4ASI	COVINGTON	88.5	GA
W4BEJ	ELIZABETHTOWN		KY
KB5CO	JACKSON		MS
WB4PMQ	GREENVILLE	131.8	NC
KE4LUC	HICKORY	94.8	NC
K4YEC	REIDSVILLE	107.2	NC
KD4QMS	SOUTHERN PINES	118.8	NC
K0JXI	MEMPHIS		TN
KD4LP	#MORRISTOWN		TN
N4PYI	NASHVILLE	110.9	TN
KB4MIC	OILVILLE		VA
WV8B	BECKLEY/OAK HILL	100.0	WV
W8CUL	MORGANTOWN		WV
449.8250 / 444.8250			
W4DOC	ATLANTA	146.2	GA
KC4UPE	BEATTYVILLE	192.8	KY
KC4VXR	SALEM	100.0	KY
KB5DSN	AMORY		MS
KF4UY	MT AIRY/FSH PK	100.0	NC
KD4RAA	NEWPORT	100.0	NC
K4GWH	RALEIGH	146.2	NC
KE4FGW	MARYVILLE	100.0	TN
K5FE	MEMPHIS	107.2	TN
N4PYI	SMITHVILLE	107.2	TN
WA4ZBP	STAUNTON	131.8	VA
449.8500 / 444.8500			
N4BZJ	DALTON		GA
N4YXL	GREENSBORO	103.5	GA
KG4OGC	HINESVILLE		GA
KF4QZN	HORSECAVE	179.9	KY
AA4NI	NEBO		KY
AB5DU	INDIANOLA	136.5	MS
KC5LXF	PINOLA		MS
W4CQ	CHARLOTTE		NC
W4BAD	RALEIGH	100.0	NC
WN4Z	ROCKY MOUNT	131.8	NC
K4GMP	WILMINGTON	88.5	NC
WB4NNX	HOHENWALD	100.0	TN
WD4MWQ	MCMINNVILLE		TN
K7AG	MEMPHIS	107.2	TN
KF4VDF	POUND	103.5	VA
AB4SF	RICHMOND		VA
WD4KZK	ROANOKE/READ MT	107.2	VA
WB8ZER	HUNTINGTON/CHAS	131.8	WV
449.8750 / 444.8750			
KE4UAS	MCDONOUGH	82.5	GA
KE4RJI	TIFTON		GA
KC4UPE	SALVISA	167.9	KY
N5HTQ	MCCOMB	100.0	MS
KD4RAA	RALEIGH	100.0	NC
WB4U	WINGATE	127.3	NC
KD4UWA	CHAT/MNTLAKE MT	156.7	TN
WA4AKM	NASHVILLE	107.2	TN
KB4WTP	BIG A MTN		VA
449.9000 / 444.9000			
KD4BOO	AUGUSTA		GA
N4BBQ	DAHLONEGA	100.0	GA
WB4IVB	CORBIN	100.0	KY
W4YWH	HIGHLAND HEIGHTS	123.0	KY
KY4SP	HUDSON	179.9	KY
W4EWN	NEW BERN	100.0	NC
W4EJ	WILSON	179.9	NC
WB4MMI	RAMER		TN
W4LYR	WATERTOWN	100.0	TN
WA4CQK	FANCY GAP	100.0	VA
N8SCS	BELINGTON	141.3	WV
KE4QOX	LOGAN	107.2	WV
449.9250 / 444.9250			
WA4NNO	ATLANTA		GA
WB4NFG	IRWINTON	77.0	GA
N4PJR	JESUP	141.3	GA
KY4X	GLASGOW		KY
KO4LI	OLIVE HILL		KY
N5PYQ	SOUTHAVEN	107.2	MS
WB5TTE	VICKSBURG		MS
KB4WGA	DURHAM	100.0	NC
K4OBX	HATTERAS ISLAND	131.8	NC
N4XRY	MOUNT AIRY		NC
N4NTO	TARBORO	118.8	NC
AC4RZ	EASLEY/SAS MTN	103.5	SC
KI4CB	GEORGETOWN		SC
WA4AKM	COLUMBIA	107.2	TN
N4VIH	DOVER		TN
KD4TZD	KNOXVILLE		TN
KD4FWS	FANCY GAP	100.0	VA
WB8BON	ROANOKE/TINKER M		VA
449.9500 / 444.9500			
W4TL	CLERMONT	131.8	GA
WR4MG	PERRY		GA

Index continues on page 43



GEORGIA

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VALDOSTA 2003

50% or more of the hamfest attendees were from Florida. It was like Florida had annexed Valdosta for a day.

"Why isn't Florida part of SERA?" was a common question from those who visited the SERA table. I thoroughly enjoyed my conversations with them. Most were already long-time buddies of Scott KB0Y.

An assertion by several Floridians was, "Florida has 30% paper repeaters".. At first I thought it was an echo. Is this like a disease that has no cure?

Couldn't help overhearing rumors all day about a possible GA-FL repeater intertie system in the making. IRLP? EchoLink? The new Skype? Keep us posted, Scott.

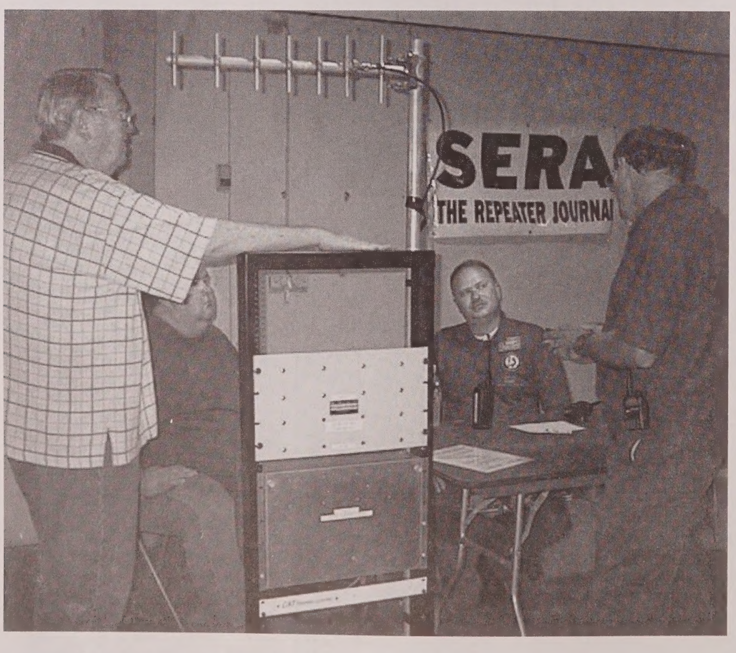
SHELBY 2003

Shelby was a blast, as usual. I went with the same group of hams I've hamfestered with for almost 20 years, and picked up some neat stuff. At their table in the boneyard, Terry W4TL (of SERA fame) and his buddies did a brisk business.

I noticed that the NC SERA table inside the main building had a steady stream of visitors.

AUGUSTA 2003

Roger W4RWG and Jim WJ4C from SC somehow slipped through our security at this Georgia hamfest, and then shared the workload at the SERA table with me. Their help was much appreciated, and we dutifully spelled each other periodically so that we could all peruse the tables.



Scott KBOY's latest 900 repeater (a converted 800 MHz GE Mastr II) drew a lot of attention at the SERA table during the Valdosta, GA hamfest. We used it all day with Motorola GTX 900 HTs, and it worked beautifully.

YES, VIRGINIA...

Ray KE4UWX ran the GA 14-C command center via a local repeater at Kilmarnock, VA after Isabel. There was zippo phone communications of any kind immediately after the disaster, so this was the only form of communications available with the field groups.

Other Georgia hams who helped out there as part of the Georgia Baptist GA 14-C Disaster Relief communications team were Steve K4SAH, Howard KD4CPK, Jack KD4ZMP, Jim KE4VDE, and myself. Mitch W4TC in GA maintained communications with VA on 40 meters and relayed info to off-site director Darryl K4REV in Gainesville, GA. Chris AE4XO and Terry W4TL provided relay assistance on 40 meters when conditions were bad.

The system worked very well.

REPEATER USE DURING COMMUNICATIONS EMERGENCIES

Those of us trying to maintain commo in VA had a significant problem with several locals there who could not be coaxed into deferring to us on the repeater as we tried to do our work. Shame on them.

FEWER PROPOSED GEORGIA REPEATERS ARE PAST THE DEADLINE

The chart below shows that the list of proposed (but not yet coordinated) Georgia repeaters is 20% smaller than it was three months ago. Super! Still, 69% of the remaining ones are way (as in *WAY* way) past the deadline. I'd use red ink for these if Gary would let me.

Below are possible reasons repeater owners might use for not keeping their paperwork up to date:

- they never read this heads-up in the RJ?
- they, uhh, forgot?
- they walked away from the project?
- they don't mind compromising ham radio for others?

SO... once more, for the record: When a coordination application (Form 03) is accepted by SERA, an "Okay, I'm now up and running" notification (Form 09) is expected from the repeater owner within six months. A six-month extension is usually granted if requested.

Trust me, the GA coordinators have their hands full just keeping up with repeater owners who follow the rules (the large majority, fortunately). If your Form 09 is overdue, I strongly recommend that you contact your coordinator immediately. Otherwise, you will probably be denied coordination in the very near future. A lot of others are standing in line waiting for those repeater pairs.

Freq.	Callsign	Location	Date
53.010-	W3LAP	Cochran	01/01/03
145.150-	K4TWG	Baconton	07/03/02
145.190-	W4CBA	Gainesville	04/19/03
146.745-	AF4VH	Springfield	07/03/02
147.090+	KE4RWR	Bainbridge	01/06/96
147.225+	KG4ABK	Doerun	06/12/00
147.330+	N4MTN	Toccoa	01/19/02
224.100-	K4SWS	Eatonton	12/29/02
224.220-	KB0Y	Ray City	12/29/02
224.660-	NP2Y	Young Harris	01/20/00
224.720-	W4UWH	Clayton	10/04/00
224.820-	WR4MG	Hawkinsville	10/19/97
441.850+	K4WOC	Sugar Valley	12/29/02
441.975+	WB4ULK	Columbus	08/26/02
442.000+	AF4UL	Macon	10/13/01
442.125+	W4ZT	Atl/Union City	02/26/03
442.300+	KW4KW	Ringgold	06/08/99
442.425+	K4SWS	Eatonton	12/29/02
442.475+	W1MED	Marlow	10/13/02
442.700+	W4MAZ	Macon	07/18/02
443.075+	WA4EOC	Canton	12/29/02
443.125+	KG4PUW	Stockbridge	12/29/02
443.525+	N4PQR	Knoxville	05/07/97
443.650+	W4CML	Atlanta	01/19/02
443.975+	KB4NPO	Rex	12/19/95
444.100+	WR4CW	Atl/Glenridge	08/26/02
444.125+	KE4PVE	Pendergrass	01/06/96
444.300+	KC4YNY	Hogansville	06/05/99
444.350+	W4CBA	Gainesville	04/19/03
444.350+	KE4PVE	Newnan	10/25/96
444.775+	N4MXC	Cochran	11/29/97
444.850+	N4YXL	Greensboro	04/14/97
444.850+	KG4OGC	Hinesville	09/30/96
927.4875-	KB0Y	Valdosta	01/01/03

OTHER ROGUE GA REPEATERS

In addition to getting the Form 9 for proposed repeaters in on time, I believe that all "paper" repeaters should be immediately eliminated and their repeater pairs returned to the pool.

If you know of any repeaters that are shown in the RJ's repeater index but are either 1) inactive, or 2) nonexistent, let me or one of the GA coordinators know and we'll follow up on it.

Then there are the uncoordinated repeaters: C'mon, guys! Sure, you may be legal—but sometimes you make a mess out of things. Get with the plan.

ALL SERA 6M IN MEMORY

There are approximately 162 six-meter repeaters within the SERA territory. This is many more than can be programmed into any 6M HT or mobile that I am aware of. However, if only *coordinated* repeaters using a 1 MHz split are included then just 97 radio memory channels are required. This fits into my Alinco DR-MO6 with room to spare.

The entire chart looks like the portion shown below, and fits in two columns on one side of an 8-1/2 x 11 sheet. Send me your email address if you'd like an MS Word copy.

Ch	In	Out	PL	Call	Location
1	52.525	Simplex			
2	51.440	51.940	82.5	KC5BMJ	Kingsland, GA
3	53.025	52.025		WB4LBR	Louisville, KY
4	53.525	52.525	88.5	WW4DC	Thomasville, NC
5	52.010	53.010		N5EKR	Ellisville MS
				WA4KOG	Memphis TN
				KI4ZR	Lexington VA
6	52.010	53.010	88.5	KE4QOX	Thomasville, NC

QUE SERA, SERA?

Here's a general wish list from some of the RJ readers:

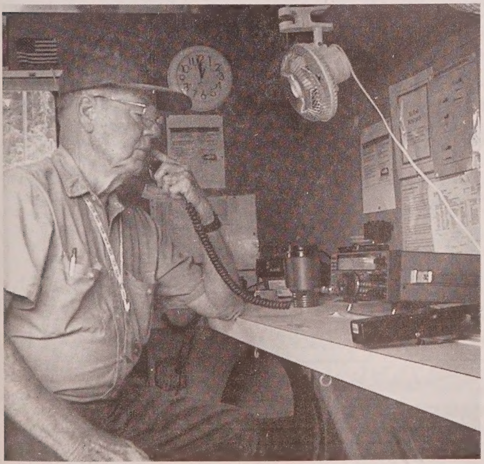
- SERA repeater database accessible from the web site
- technical articles in the RJ
- a set of SERA state repeater maps, for the benefit of travelers
- Dayton 2004 SERA table.
- a "New GA Repeater" list. (Okay, next *RJ* issue, I promise.)

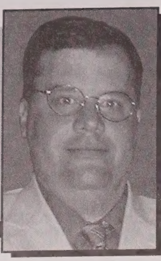
Hey, don't shoot the messenger!

Right: Jim N8JLZ (left), Don KF4FQJ, Tony KD4K, Harry N8VG, Bert N8GUU, and Ron WB8ERB were some of the first Georgians in the parking lot at Shelby 2003.

Below: Ray KE4UWX running the GA 14-C command center via a local repeater at Kilmarnock, VA after Isabel.

And Jim WJ4C and Roger W4RWG (SERA's SC team) shared the workload with me at the SERA table during the Augusta, GA hamfest.





KENTUCKY

REPORTED BY
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New KY Correspondent

Gary Pearce KN4AQ
Editor

With this issue the *Repeater Journal* welcomes a new State News Correspondent for Kentucky. Frank Belcher KS4XL asked to step down, and recommended that I contact Pat Spencer KD4PWL. Pat has had several stories in the *Repeater Journal* over the past two years, and has a good grasp of Amateur Radio activities across his state. Pat agreed to take on the column, so we thank Frank for his service to SERA and the *Journal*, and we welcome Pat!

Pat was first licensed in 1992. His primary interest in ham radio is emergency service, something he has taken to with enthusiasm. He is Liaison to the National Weather Service, to Kentucky Emergency Management, and the Lexington-Fayette Urban County Division of Environmental and Emergency Management. He is administrator of the Kentucky Amateur Radio Web Site, and the KYHAM Listserv, and holds the position of ARRL Kentucky Assistant Section Manager.

Pat is not deeply into repeaters. He is listed as Assistant Trustee on the N4DUE repeater, but says if he has repeater questions, he "knows who to ask." He worried that this might be a problem for a *Repeater Journal* columnist, but I assured him that a well-rounded and "plugged-in" ham was what I was really looking for.

A Kentucky native originally from Frankfort, Pat has been living in Lexington since 1993. He attended the University of Kentucky, and serves as a Systems Administrator and Graphic Output Specialist for a sports collectible manufacturer in Lexington.

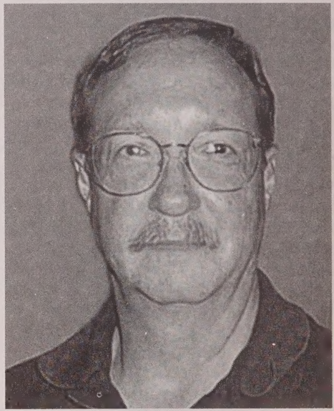
Pat is married, and says his wife, Kim, assists at public service events, logistics during disasters, and supports all amateur radio activities. He is a lucky ham!

Although Pat is well-connected in the state, I'd like to remind all repeater owners and clubs to make sure he's on your newsletter and e-mail lists. Send him news and pictures of your groups activities.

New KY SERA Asst. Director

Another new SERA appointment for Kentucky: in e-mail voting, the SERA Board approved KY Vice-Director Tim Osborne K4TDO's nomination of David L. Forbis KD4DVI of Calvert City to the position of Assistant Director. David gave the *Repeater Journal* this biography:

> I have been employed by the United States Enrichment Corporation (USEC) for 27 years, for the last several years as a Process Operations Supervisor. USEC enriches uranium for nuclear reactor fuel, and is the sole domestic supplier for enriched uranium.
>
> For over 27 years, I have volunteered with the Paducah-McCracken County Office of Emergency Management. Initially, with the county's Rescue Squad, which included Kentucky's first Urban Search and Rescue (USAR) unit. For the last several years, I have installed and maintained the majority of OEM's radio equipment, which included nearly 100 radio units.
>
> In 2001, after the retirement of the Communications and Warning Chief of Paducah-McCracken County OEM, I was appointed to be the Communications Director, and gained responsibility for our VHF repeater, UHF repeater, 2 meter and 440 repeaters. I am also helping lead a Homeland Security project for McCracken County OEM for the installation of two conventional 800 MHz repeaters, a county operated ten-channel 800 Smartnet II trunk system, and magstripe county ID/entry system. I have recently been gaining experience with the use of ComStudy 2.2.



New SERA KY Assistant Director David Forbis KD4DVI

> I have been an Amateur Radio Operator since 1991, and have been very active on two meters and 70 cm, and welcome the opportunity to assist in the coordination of repeaters for Western Kentucky.

Welcome to SERA, David! ■

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Computer Automation Technology, Inc.
WX-200 Digital Weather Receiver

The NOAA Weather Radio Network broadcasts National Weather Service warnings, watches, forecasts and other hazard information 24 hours a day. With so many unsettling weather conditions, don't you think its time to provide timely weather alerts for your repeater group?

Specific Area Message Decoder

A digital decoder responds to Specific Area Message Encoded (SAME) alerts transmitted by the NOAA weather station located in your area. Select your county code and the type of alert. Select warnings and/or watches.

Voice Synthesizer Alert Message

Imbedded in the alert information packet is the time the warning or watch is in effect. The voice synthesizer will key-up the transmitter and announce the alert. "Severe Thunderstorm Watch," "Tornado Warning," "Winter Storm Warning," "Flash Flood Watch," and the new Amber Alert for missing children are just a few.

Alert Message Transmit Timing

At the conclusion of an alert, a termination packet turns the transmitter off.

Repeater Interface

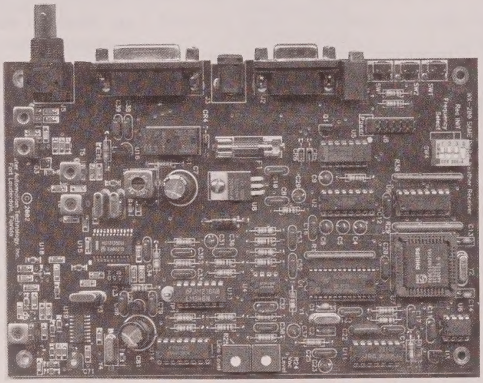
The WX-200 has been designed to easily interface to your repeater. A minimum of four connections is all that is required.

Weather Enable Input

Ground this input to provide weather reports on demand.

Weather Disable Input

Ground this input to prevent future alerts once a Skywarn net is activated.



Weather Alert Log

The WX-200 stores the date, time and type of alert in memory. Use the RS-232 port and the configuration program to download the log.

Alert Start Logic Output

This output provides a TTL logic high when a weather alert is received. It can be used to set off an external alarm or trigger the controller to execute a macro or load a memory save.

Alert Stop Logic Output

Included in the digital packet is the length of the alert. The WX-200 generates a stop logic output when the time period has expired. Use this output to reload a normal memory save.

Ordering Information

WX-200** Digital Weather Receiver, With Windows® Configuration Program:* ***$299.00.

Computer Automation Technology Inc.

4631 N.W. 31st Avenue, Suite 142, Fort Lauderdale, Florida 33309
Phone: (954) 978-6171 - Fax: (561) 488-2894
Internet: http://www.catauto.com

MISSISSIPPI

REPORTED BY
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Greetings, from Mississippi

Well, A lot of great stuff has been going on in Mississippi this quarter and it is great to hear from yall out there. Remember to keep the newsletters and emails coming. You can also send photographs to me also of the stuff you do.

And now for the news, which is not in chronological order.

Ham Radio helps MS team win National Solar Power Competition

There has been a lot of activity in Houston, Mississippi, that will interest all of us. The **Houston High School Vocational Education Department** built a solar powered race car (the Sundancer) that has won the Dell-Winston national competition for the past 3 years.

They experienced problems with their Family Radio units and decided to switch to ham radio, really 2 meters. As the area Liaison Volunteer Examiner, K5VVA gave ham radio exams in Houston every weekend during the month of June. Fourteen race team members and support staff got their ham radio licenses.

The results were so good that in the future, to be a member of the race team, you MUST have a ham radio license, and the license study material will be incorporated into the Vocation Education curriculum. There are currently 15 new ham radio licensees associated with the group.

The area is really supporting the race team, including the Chief of Police, Mississippi State Electrical Engineering professors and students, etc. The Dell-Winston group routed this year's race from Round Rock, Texas, to Cocoa Beach, Florida, through Houston, where they were fed, had their clothes laundered, and Governor Ronnie Musgrove spoke at the banquet. **WCBI** in Columbus and **WTVA** in Tupelo carried stories on the race, cars, race teams, etc. while they were in Houston.

The Houston race team is leaving for Australia in October to participate in the solar race from Darwin on the North Coast to Adelaide on the South Coast. They have no illusions about winning, competing against the likes of GM, etc. They just hope to finish the race. No high school team has ever finished the race.

The new Hams who were licensed are as follows:

Walter Archer KD5WWP
William Reese KD5WWR
Dr. George Molen KD5WWT (upgraded to AD5OT)
Jerry Hamilton KD5WWU
John Lowe KD5YCP
Robin Kelley KD5YFK
Cody Spencer KD5YFM
Kevin Davis KD5YFO
Matt Mangrum KD5WWQ
Danny Lantrip KD5WWS
Daniel Black KD5YCO
Travis Brignac KD5YFT
Matthew Gray KD5YFL
Justin Black KD5YFN
Shane Cravens KD5ZDQ

Special thanks to Bob K5VVA for the fine reporting.

HARC helps with Diabetes Walk

Many Ham radio volunteers showed up to help with the **Hattiesburg** area and statewide **Diabetes Walk**. Operators assisted with keeping ample water at the stations, reporting problems with traffic, and reporting walkers needing assistance. One walker had the roving patrol pick up her dog. She was afraid the dog was getting too hot. We took him back to the starting point. No medical procedures were needed.

The chairman expressed his deep appreciation for the assistance provided by the **Hattiesburg Amateur Radio Club.** The event was handled on simplex. This operation was a reminder that each operator needs an emergency station capable of communicating to distant repeaters and other operators at distant sites when repeaters are not available. Thanks to **Lex KD5XG** for the reporting.

Those participating are as follows:

Gerald KD5MIQ
Johnny K5MDD
Paula N5QNB
John W4KGJ
Pete AC5E
Larry AG5Z
Lex KD5XG
Charles KG4CKW.
Jim N5LAG
Harold W5VHF
Walter AA5IO

Vicksburg ARC Provides Communications for Run

The **Vicksburg ARC** again provided communications for the annual Run Across the River. Those VARC members spread out along the 2.5 mile Mississippi River Bridge were **KC5QZW, N5JGK, KJ5RC, K5NRK, KE5K, W5WAF, KD5WCT, KD5WCN, KD5WCO, KD5WCR, and N5ZNN**

Well that is about all I have for this month. Hope to get more stuff in the next quarter. Please, if you folks want to see stuff about your club or area in the Journal you have to send it to me.

Thanks and 73,

C.F. Diamond KG4CKW

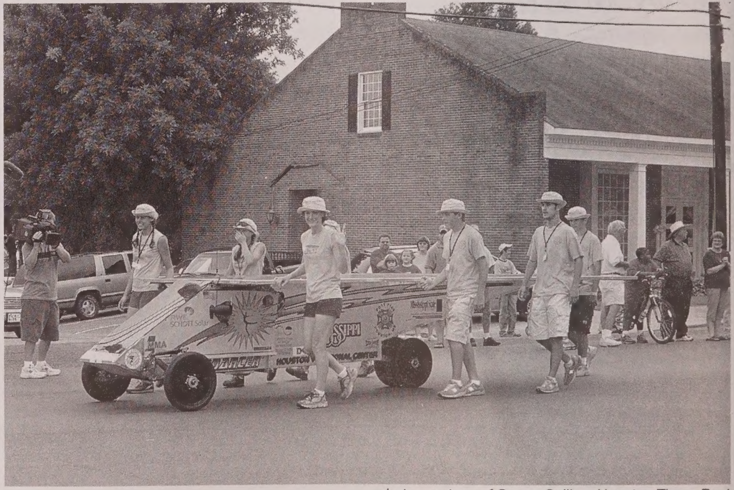

photo courtesy of Susan Collins, Houston Times Post

*The solar-powered **Sundancer,** and Houston, Mississippi High School team members Sherrie Springer, Angel Kilgore, Mandy Davis, Jessica Sykes, Jessie Lal, Matthew Mangrum KD5WWQ and Cody Spencer KD5YFM.*

continued from page 37

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Concludes

N4DUE	LEXINGTON		KY
WB5YGI	PHILADELPHIA		MS
N5VGK	TUPELO	192.8	MS
WA1WXL	CHARLOTTE	136.5	NC
KF4DWV	GREENSBORO	100.0	NC
KF4HFQ	ROLESVILLE	88.5	NC
KD4PBC	CHARLESTON	103.5	SC
W4EYJ	CROSSVILLE	118.8	TN
K4GX	GREENEVILLE		TN
WB4NNE	MEMPHIS		TN
N8ITF	SPRINGFIELD	100.0	TN
WA4KXV	VIRGINIA BEACH		VA
WB8CQV	SO. CHARLESTON	203.5	WV
449.9750 / 444.9750			
WA4YNZ	ATLANTA		GA
K4TVE	BRUNSWICK		GA
W3LAP	COCHRAN	77.0	GA
WA4YNZ	#CUMMING		GA
KC4QK	ASHLAND	107.2	KY
WB4CWF	NICHOLASVILLE		KY
N5PS	O'REILLY	100.0	MS
KE4QAP	ASHEBORO		NC
N4JEH	CASTALIA	107.2	NC
W4YMI	NEWPORT CCARS		NC
KC4ZTJ	POLKVILLE		NC
WM3O	ORANGEBURG		SC
KQ4E	MORRISTOWN		TN
WA4AKM	NASHVILLE	107.2	TN
N4AZJ	PEARISBURG	103.5	VA
N8EKT	WHEELING		WV
443.7750 / 448.7750			
W4RKC	WINCHESTER	146.2	VA
KA1OKQ	CONCORD, NH	82.5	ZZ
439.2500 / 911.2500			
KA5NOJ	GAUTIER		MS
426.2500 / 923.2500			
K4CQ	LYNCHBURG		VA
439.2500 / 923.2500			
KY4ATV	#LEXINGTON		KY
900 MHZ			
907.5000 / 919.5000			
WD4KZK	ROANOKE/POOR MT	107.2	VA
908.5000 / 920.5000			
KF4TNP	LEWISBURG		TN
908.8000 / 920.8000			
KQ4E	MORRISTOWN		TN
909.0000 / 921.0000			
K4CQ	LYNCHBRG/TOB MT	100.0	VA
909.1000 / 921.1000			
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
910.2500 / 923.0000			
WA4VHP	#SAVANNAH		GA
K4ZGA	NASHVILLE		TN
902.4875 / 927.4875			
N8EKA	DAHLONEGA	100.0	GA
KB0Y	VALDOSTA	141.3	GA
N4JNE	FANCY GAP	100.0	VA
902.5000 / 927.5000			
KG4LMT	ATLANTA	223.0	GA
902.5250 / 927.5250			
W3PS	DALLAS	100.0	GA
902.5500 / 927.5500			
WA4TOG	BEAR WALLOW	131.8	NC
902.6125 / 927.6125			
KB4WGA	DURHAM	100.0	NC
902.6625 / 927.6625			
N2QJI	CONCORD	141.3	NC
W4FAL	RALEIGH	156.7	NC
N4DTR	WAYNESVILLE	131.8	NC
902.6875 / 927.6875			
N8EKA	LAWRENCEVILLE	141.3	GA
902.7250 / 927.7250			
KA4KMG	LEXINGTON	DCS75	KY
1270 MHZ			
1265.0000 / 421.2500			
N4BZJ	DALTON ATV		GA
1253.0000 / 427.2500			
N4NEQ	ATLANTA/MARIETTA		GA
1277.2500 / 439.2500			
KD4EEW	NASHVILLE		TN
1260.0000 /1240.0000			
W3PS	CHESTER, PA		ZZ
1277.2500 /1253.2500			
W4PPN	#CHARLOTTE		NC
1270.5250 /1282.5250			
N2QJI	CONCORD	141.3	NC
1271.1000 /1283.1000			
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
1272.4000 /1284.4000			
WA4AKM	NASHVILLE		TN
1273.3000 /1285.3000			
KF4TNP	LEWISBURG		TN
1274.0000 /1286.0000			
K1YJ	NASHVILLE	88.5	TN
1274.5000 /1286.5000			
WA4AKM	SMITHVILLE		TN
1271.0200 /1291.0200			
N4CH	ROANOKE/POOR MT		VA
1271.4100 /1291.4100			
AD4DN	WILMINGTON	88.5	NC
1272.0000 /1292.0000			
KB4KIN	ATLANTA/BELL		GA
N4HKS	MEMPHIS		TN
1272.8200 /1292.8200			
AG4EI	GASTONIA/CRWDR		NC
2.4GHz			
2441.6000 /2411.6000			
WA1ZMS	BEDFRD/APL ORCH		VA

More repeaters–more members!

The unexpected appearance of a part of the Repeater Index on this page is due to a surprise increase in the number of repeaters in SERA territory. Just last February, we increased the Index space from 16 to 17 pages, and it looks like we'll have to plan on 18 starting next year.

SERA full and associate membership is up, too, by several hundred over this time last year. We've had to increase our print run to accomodate the jump. I think we can blame the energetic hamfest appearances by SERA staff in many of our states. A few folks have said nice things about the look and coverage of the *Repeater Journal,* too.

We wouldn't mind growing some more! Tell a friend about SERA. Pass along your copy of the *RJ* (if you don't archive it).

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RJ

Make check payable to: SERA Membership *(Please Print Carefully - we gotta read this, y'know)*

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Address______________________________ Date______________

City________________________ State_______ Zip__________

Phone [______] ________ __________ ARRL Member? { }YES { }NO { }LIFE

E-Mail Address______________________________
(SERA does not sell or give away our members' street or e-mail addresses)

$__________ Payment for ____Year(s) Membership.
$10/year — 2 year maximum

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Renewal ☐

Deadlines to receive the next issue:
FEB: Jan 15
MAY: April 15
AUG: July 15
NOV: Oct. 15

NORTH CAROLINA

REPORTED BY
MIKE LEWIS WA4KE
3401 APPLE MEADOW DR.
FUQUAY-VARINA, NC 27526
WA4KE@SERA.ORG

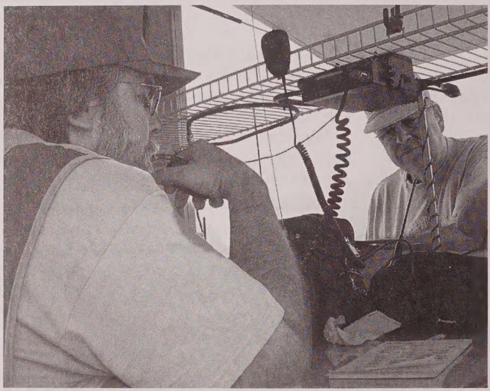
Due to computer problems, the last issue's column was as lean as a Thanksgiving turkey after lunch, but with a little shot of WD-40, some ninety weight gear lube on the hard drive and an angry young lady by the name of Isabel, this column should have some meat to it. *[Isabel reports appear on page 5.]*

The **Foothills Amateur Radio Club** and the **Alexander County ARES Group** teamed up to coordinate the communications for the Wilkes County Bandit's Challenge Triathlon on August 16. The 145.37 W4HF repeater was used for this event, providing communications support for the Wilkes County YMCA, Wilkes County EMS and NC Highway Patrol.

Due to the experiences working with the Foothills ARC and Alexander County ARES, the Wilkes County EMS decided not to set up their communications network, and replied strictly on the amateur radio assistance.

On August 16, 2003 after nearly a year-long absence, the **Triangle East ARA VE Team** returned to the Smithfield Library for VE testing. The team had been forced to relocate to the Smithfield Fire Station beginning last August due to expansion and renovation of the library. Former Fire Chief Norman Johnson and his dedicated cadre of firefighters were most helpful to the team during the last year, providing them with access to copiers, the Internet, and an occasional pot of fresh brewed coffee. In addition, they were able to use the station's classroom for candidate testing.

Frank Lynch, W4FAL, provided the monthly program for the **Tar River ARC** for the month of September. Frank discussed SERA and its purpose in coordinating repeaters in the southeastern region of the US.



Bob Breyer K1RCB leans in as Bruce Arnold N8UTY operates Net Control for the Eastern NC MS-150 Bike Tour. Bob and Bruce led hams from the Triangle and New Bern areas and beyond. The MS Society had a record turnout for the 2003 event. The new Carteret Co. ARS Comm Unit served as the event communications center.

US Rep. David Price (center) and NC Senator Ellie Kinnaird (2nd from left) visited the Orange County Radio Amateurs' Field Day

Both US Representative David Price and NC Senator Ellie Kinnaird visited the **Orange County Radio Amateurs W4EZ** field day site and had a chance to discuss the setup of the Orange County ARES team on the grounds of the Orange County Board of Education in Hillsborough, NC.

The **Johnston (County) ARS** is providing 5 WPM code practice sessions on the 146.27 repeater. The practice sessions are to aid those who are interested in learning the code - the goal being proficiency to pass five words per minute exams. Steve KA0GMY will be net control and instructor for each session.

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Winston-Salem Hamfest

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- VE Exams
- Special Interest Forums
- Homebrew & Operating Contests
- 110,000 Sq. Ft. Indoor Fleamarket
- QSL Checking
- Hamfest Prizes
- Dealer Space
- Free Parking
- NC State Fairgrounds, Raleigh, NC

Congratulations are in order for our **Technical Coordinator, Danny Hampton, K4ITL** of Raleigh. Danny is the recipient of the 2002 ARRL Technical Service Award, so designated by the ARRL Board of Directors during the July meeting. Danny is the North Carolina Director of the South-Eastern Repeater Association, and has been involved in the Coastal Carolinas Health Alliance communications project.

Jon Matlock, KE4IAM, of the **Guilford Amateur Society**, is coordinating efforts to provide communications support of the Triad Highland Games, on August 16, from 8:00 to 4:00. Jon says 25-30 amateur operators will be needed for this event in order to tie all communications together into one central control site. In addition there will be a Fly-By from the Aircraft Museum out of Randolph County and a Special Event Station for contacts to Scotland.

AC4RC (Azalea Coast Amateur RAdio Club) participated in the annual Lighthouse & Lightship Weekend, August 16th and 17th. The club operated from the US Coast Guard Station Oak Island. Joe Tripp, KG4WMP, acted as the club's coordinator.

Tri-County ARC NC4AR assisted with the Bike-A-Thon at The Red Cross, and on October 18 the club assisted with a special event at the NASCAR Days in Randleman.

North Carolina ARRL Section Manager John Covington W4CC was busy over Field Day weekend visiting sites from Gastonia to Wilmington. John stopped at the end of I-40 to inspect Wilmington's **Azalea Coast Amateur Radio Club** operation. John arrived in the Port City at 1:20 PM, 40 minutes before the official end of Field Day, having started Saturday morning visiting Field Day locations in Gastonia, Charlotte (2), Lexington, Winston-Salem, Greensboro, Burlington, Durham, Raleigh (2), and Smithfield.

Grant Morine KG4OCD, a 7th grader at the Williston Middle School in Wilmington, NC, won first place in the Technology Division at the county science fair and third place in the southeastern North Carolina regional fair. Grant's project was the relationship between wavelength and frequency. To demonstrate his hypothesis, Grant built identical 2 meter and 70 cm four element quad antennas and tested them on the air. This is the second year in a row Grant has won first place in the New Hanover County Science Fair using a ham radio project.

Another hurricane has passed, but keep those batteries charged and ready to go. See you at the Benson Hamfest, the last one for NC 2003.

Send all news, reports, or club events to WA4KE@SERA.ORG, and keep John Covington W4CC updated on your club's status.

To finish up this issue's column, words of wisdom:

> Forget the health food, I need all the preservatives I can get.
>
> \- Ardie N4OIC

Once Again, Shelby
Just Keeps On Going Strong!

THOUSANDS OF PEOPLE

Enjoyed The Great -

2003 Shelby Hamfest

We Thank You

And We Hope You'll Join Us for

Shelby 2004

Next Labor Day Weekend

September 4-5

We promise you -
it will get even better!

To be held as usual at the
Cleveland County Fairgrounds, Shelby, NC

The Great Shelby, NC Hamfest -
"The Granddaddy of them all"-proudly sponsored by the Shelby Amateur Radio Club

(More details and information in future *Repeater Journal* issues)

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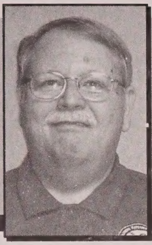


SOUTH CAROLINA

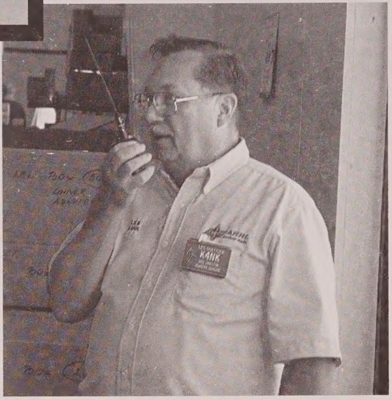
REPORTED BY
ROGER GREGORY W4RWG
102 PARTRIDGE RD.
UNION, SC 29397
(864) 427-1462
w4rwg@sera.org

Hello South Carolina,

I want to take this opportunity to congratulate **Danny Hampton K4ITL,** our North Carolina Director and technical committee chairman, for being the recipient of the ARRL 2002 Technical Service Award. Danny received this award for his accomplishments including being the architect of the Piedmont Coastal Repeater Network, established in the early 1970s. This network is composed of 40 repeaters across North Carolina and South Carolina, Virginia and West Virginia. A licensed ham since1958, Danny received a plaque and $100. We are fortunate to have someone like Danny as our Technical Committee Chairman. Danny, you are well deserving of this award.

The **Anderson Radio Club** had John Peterson WN2W and Brian Sugden KR4SP speak at their July meeting on how ARES & RACES work together. The ARC welcomes new members Les Shattuck K4NK and Dwight Moses KD4USA. I like that callsign!

The ARC Spotlights **Les Shattuck K4NK** in their September newsletter. Les is probably one of the best-known hams in the Southeast. In addition to being the ARRL Roanoke Division Vice-Director for the last 4 years, he has held various offices in the ARRL for the past 39 years including SC Section Manager and SC Technical Coordinator. Les enjoys operating CW, and building and restoring antique radios. Les is the manager of Communications Service Center in Anderson, and is also a licensed Methodist Pastor. His wife Joyce N2PTW usually travels with him to all the hamfests. Congratulation Les, keep up the good work!



ARRL Roanoke Division Vice-Director Les Shattuck K4NK says this photo of him talking on UHF-FM would be rare. ***RJ*** *editor KN4AQ documented the event at the Shelby hamfest.*

The 31st Annual and Original
CHARLESTON HAMFEST
AND COMPUTER SHOW
SATURDAY, FEBRUARY 7, 2004

Notice: This Hamfest is considered a family affair. The committee reserves the right to eject any inappropriate materials from the premises.
Prizes: $400, $200, & $100 cash. Door prizes during the day. **Activities:** Forums and Bingo.
Food: World Famous C.A.R.S. Dogs and BBQ Sandwiches. **Volunteer Exams:** On site at 1:00 pm.
Admission Tickets: $5.00

Exchange Park Fair Grounds, Ladson SC
I-26 at Exit 203
Acres of Free Parking
Talk in - 146.79, 145.25, and 147.045
Doors open at 8:30 am
See more details at http://www.qsl.net/wa4usn
or contact Jenny Myers, WA4NGV
2630 Dellwood Avenue, N. Charleston SC 29405-6814
(843) 747-2324 or email: brycemyers@aol.com

CHARLESTON AMATEUR RADIO SOCIETY INC.
CHARLESTON, SC
email: WA4USN@AMSAT.ORG

The Blue Ridge Amateur Radio Society welcomes new members Dan Blackwell WB4FEE, Luke Anderson KG4TQS, and Kerry Charves KG4RIS. Plans are under way for upgrading the 146.61 and 146.82 club repeaters. New antennas, grounding, and duplexer retuning are in their plans. Guest speaker for the September meeting was Marc Tarplee N4UFB the ARRL SC Technical Coordinator who presented a program on Broadband over power lines. Greenville WCARS VE team gives exams the first Saturday of each month at the Red Cross Building on Grove Road. The contacts are John Chism ND4N or Sue Chism N4ENX. **n4enx@mindspring.com.**

The Columbia Amateur Radio Club plans to begin sending out their newsletters by email instead of snail mail. They decided to do this as a cost cutting measure so the money saved can be used for club activities, repeater upgrades and repairs. *Please make sure* ***w4rwg@sera.org*** *is in your address book.* The CARC President Gary Simmons WG4VS has resigned due to health reasons. Club members extend their gratitude and thanks to Gary for his hard work and dedication to the CARC. The guest speaker for the August meeting of the CARC was Don Daso K4ZA a premier contester and member of the Carolina DX Association. He gave a talk on the subject of Dxing and contesting skills.

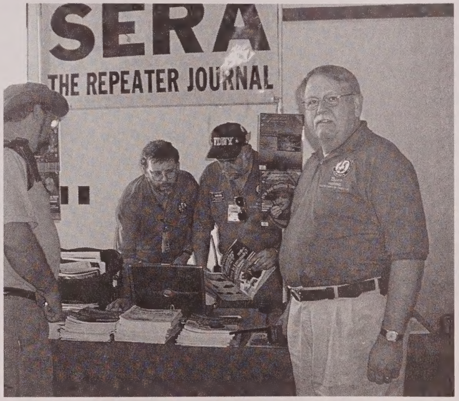
The Charleston Amateur Radio Society held their election of officers with he following results: President Ken Bible AF4ZV, Vice President Doug Clark KU4OC, Secretary Tracey Bible KG4HTW, and Treasurer Linda NeSmith K4MPY.

The CARS, lead by Ed Walker KQ4DC, ran a special event station from the Historic Museum Ship the Yorktown. Contacts were made with 17 of the 81 Historic Museum Stations and 450 other contacts with stations in Israel, England, Wales, Cuba, Brazil, Costa Rica, Spain, Argentina, Italy, St. Kitts and almost all of the US states and Canadian provinces. The CARS wishes to thank Ken AG4IM, Doc W4MUR, Linda K4MPY, John K4CSB, Chip KM4AF, Bobby W4KSD, Ed W4NSC, and David AE4ZR who helped with he event.

The CARS welcomes new members Larry Grant W4MBC and Avery Hill KI4BBV. Ed Frank KC4ED is planning on starting a class for hams wanting to upgrade or to acquire new skills. Classes will be taught at the Red Cross Building. Contact Ed for more information. The CARS offers VE testing the third Saturday of each month at 9:00 am in Building 400 Room 104 at Trident Technical College. The club will host their 31st annual **Charleston Hamfest** on Saturday, February 7, 2004 at the Exchange Park Fairground. For more details go to **www.qsl.net/wa4usn**.

The Chester Amateur Radio Emergency Services Club has confirmed the date for the **Chester Tailgate Party.** The date will be June 19, 2004 at the Chester State Park. The club wishes to congratulate Don Etters W4DEE for obtaining 5 band DXCC. That is a nice accomplishment. I have been working toward that goal for 3 years. The Chester Club holds a net the 1st and 3rd Monday of each month at 7:00pm on the 145.31 club repeater.

The Florence Amateur Radio Club has donated 18 books at a cost of $200 to the Florence County Public Library. The Library featured the FARC and amateur radio during the month of September with a display of old radio equipment, handbooks and posters. Similar plans are for the exhibit to be displayed in the Darlington and Lake City Libraries, and in the libraries of Frances Marion University, Coker College, and Florence-Darlington Tech.



W4RWG visits the SERA NC "Lynch Mob" crew at the Shelby hamfest. Behind him, looking at the August RJ, are Frank W4FAL and Bob K4HA.

Due to unknown interference problems, the FARC has added a tone of 167.9 to their 146.79 repeater. Please make note of this. The FARC has a new website! Check it out at **www.w4ulh.org**. The FARC holds a net each Monday at 8:30 pm on the 146.850 repeater. Join them each week.

The **Grand Strand Amateur Radio Club** reports the death of Jack Pegues. He was a true ham in all respects. He never failed to help his fellow hams when called. His hard work in developing the PALS Network, among many other endeavors in South Carolina over the years will be missed.

The GSARC will host their **BeachFest 2003** on November 8th this year at a new location: the Conway National Guard Armory located at 1621 16th Avenue in Conway, (only 10 miles inland from Myrtle Beach). They have 5 dealers signed up as well as a probability of 5 or 6 more. I hope Jim and I can go this year and represent SERA.

The **Greenwood Amateur Radio Society** is busy planning their 2004 hamfest. The date is January 10 at the Greenwood Civic Center. Doors open at 9 AM.

Greenwood was the very first hamfest I attended way back in 1993. My good friend Marshall Hodge W4MLH, his son Tony KD4YFD and I had just passed our Technician test and were waiting on our "ticket" to arrive. I believe we spent about $400 each buying radios, power supplies, wattmeters, and antennas. Our calls back then were KD4YFB, KD4YFC, and KD4YFD. Make plans to come to this first hamfest of the year in South Carolina. This is a friendly hamfest with good selections. Jim WJ4C and I will be there to offer SERA memberships.

The GARS meets the 3rd Monday of each month at 7:30 pm at the Fireman's training center on Airport Road. A net is held each Thursday at 9:00pm on the 147.165 repeater.

The Keowee-Toxaway Amateur Radio Club welcomes new member Jeff Stratton KF4ZPO. The KTARC wishes to thank Lew Finch W4VRV for the presentation he gave on HF antennas and Mike Oakley N9GSX for the program he gave on how to construct a 2 meter antenna. Congratulations to Josh Gosnell KG4YTP for being elected to the Board of Directors.

The Ridge Amateur Radio Club spent their September and October meeting taking a certification class given by the American Red Cross on Disaster Assessment and related topics. With this training, they will be prepared to assist the Red Cross if the need arises. .

The Spartanburg Amateur Radio Club welcomes new members Mike Bonner KI4AWC, Jim Campbell W4BQP, and Pat Shell KU4XJ. At the July club meeting "My Friend Fritz" W4NTO gave a demonstration on building a soda can 2-meter antenna. (I have one with a red bow on it). At the August meeting Harold Kinley WA4GIB presented a program on the computer software "Radio Program Deluxe". This program deals with radio propagation. Harold helps keep the Spartanburg repeaters on the air. A Certified Electronics Technician, he has written several articles for the magazine *MRT* (Mobile Radio Technology) including *Using Crystal Filters* (1998), and *Co-channel Interference, How Bad Is It?* (1997). Harold also wrote and published a book back in 1980 entitled *The PLL Synthesizer Cookbook.* Way to go Harold!

The Sumter Amateur Radio Association was the sponsor for the 1st Annual SC QSO Party which ran Sept 20-21. Those participating report they had a great time. They will be doing it again next year, third weekend in September, so mark your calendars.

The Trident Amateur Radio Club took part in the 46th annual Boy Scout JOTA October 18-19. 250-300 Scouts from the greater Charleston area attended. 100 or so camped out overnight. The TARC welcomes new members Larry Newpert KG4AEN, Byrce Myers K4LXF, Glenn Little WB4UIV, Avery Hill KI4BBV, Jenny Myers WA4NGV, and Dennis Miller KI4CDQ.

The Union County Amateur Radio Club extends its sympathy to Ray and Kathleen Thomas, owners of the Rosewood Company. Ray's father passed away on Sunday while Ray was set up as a vendor at the Shelby hamfest. Ray and Kathleen are our very special friends that have supported our hamfest every year since we started. Jay K4KAN has been sick and in the hospital. We wish him a speedy recovery. The Union WCARS VE Team holds exam sessions the 2nd Thursday in January, March, May, July, September, and November at 7 PM in the Union County 911 Center training room on North Pinckney Street in Union, SC. Contact Jim WJ4C for information, **wj4c@charter.net** .

The York County Amateur Radio Society had their annual **Rock Hill Hamfest** October 4th at York Tech, a new location this year. It hasn't been held in Rock Hill for a number of years, and all members were excited about that. Marc Tarplee N4UFP made the arrangements for this move to York Tech. Vince DiCarlo KF4ZOQ was the quest speaker at the September 25th Program Meeting. Vince presented the "Doppler Radar Class", and did a terrific job. The members at YCARS are very involved with Skywarn, and always welcome Vince to join them at their meetings. The YCARS celebrated their 55th anniversary on August 10th. YCARS is now an ARRL affiliated club with 51% plus members. Bob Bacharach WA2EMF is now the new Trustee of the K4YTZ call, and the club station. He asks that members using the repeater to please continue to use it properly, and help police the proper use of the repeater.

Newly Coordinated Proposed Repeaters in South Carolina:

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KI4D	443.100	Rock Hill

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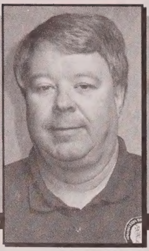
73,

Roger Gregory
SC Director

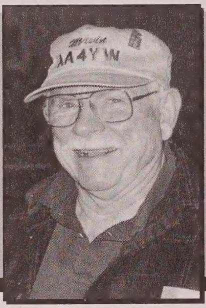


TENNESSEE

REPORTED BY
BOB GAULT KD4NEC
221 CEDARWOOD TRAIL
CLEVELAND, TN 37312
KD4NEC@SERA.ORG

Let's Look at it- this way!!

Marvin Whatley AA4YW
4010 Schooner Circle
Oriental, NC 28571
(919) 249-0047
aa4yw@sera.org



. . . will both return in the February issue!

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Six Meter Nets in Knoxville, TN Area

We have started a new "Six Meter AM Nostalgia Net" on 50.4 MHz (we refer to it sometimes as really being held on 50.4 MCS for nostalgia reasons). We encourage the use of vintage AM equipment, but anyone using newer equipment on AM is certainly welcome. We're using horizontal polarization. We had 13 check ins to our first net. We're currently meeting on Thursdays at 20:30 PM ET, but may move the date and time.

We also have complementary six meter FM and SSB nets meeting on Sunday. The "Sunday Night Six Meter FM Net" meets at 21:00 PM ET on the 53.770 repeater (alternate is 53.250). Five minutes after the conclusion of the FM portion of the net, we have a "Sunday Six Meter SSB Net" on 50.2 MHz (USB). We are averaging 15-18 on the check ins for the FM net, and 10-12 for the SSB net, although we've had as many as 18 on the SSB net. We use vertical polarization for the FM portion, and horizontal polarization for the SSB portion.

Another new six meter net has just started on the 53.610 repeater, and it meets Thursdays at 20:00 pm ET.

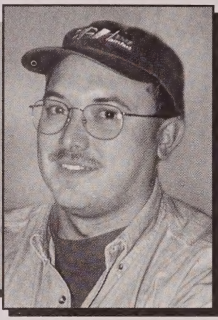
*[Editor's note: The **Repeater Journal** doesn't have room for a net directory, but if you run a VHF or UHF net that you'd like to promote for long distance contacts or special content, we'll try to squeeze in a short blurb about it. E-mail editor@sera.org–KN4AQ]*

This omni-directional PAR antenna lets net control hear in all directions for the Knoxville six-meter Nostalgia Net.

Get the Hammer

And let's get technical

Randy McKenzie KK4EJ
3661 AIRPORT RD.
HILLSVILLE, VA 24343
kk4ej@sera.org



Baby and House!

Hello all from the land of the diaper changing king! Zachary Scott was born Tuesday Sept 9, 2003 at 11:04 am. 8 pounds, 1.6 ounces, 20.3 inches long. Everyone healthy and happy. My daughter, Kaitlyn is very happy to have a baby brother and likes being called " big sissa".

Also after a year of design, and two years of construction, we have finally moved into the new house. It has been an experience of a lifetime for sure! We are still wondering where all that stuff came from, and where we are going to put it.....landfill won't take but so much!

Thanks for the nice responses for the Aerotron MEGA conversions. I think many of you will be very happy with the results. No bugs have been reported so far, if any occur, I will pass them along.

Vote Early and Often

The subject of VOTERS has come up from emails from some of you, and I hope to pass along some basic knowledge of them. In fact, I am currently acting as a consultant for a local group on a six site voter system.

The voter is a magic box that selects the best receiver for your usage. The magic part comes from one or many of various options. The basic voter accepts audio from multiple receivers, selects the best audio, and routes it to the desired point. For example: A system has four radio sites, using four different towers, all linked back to the control point. All the receivers use the same frequency and CTCSS tones. When a signal is transmitted, one or more of the rx sites will see the signal, opening up the rx, turning on the link, and the audio from every active rx is routed to the voter. The voter may select the site based on audio quality, then send the selected audio to the control. The control may be a dispatcher (police, fire, rescue, etc) or the audio input to a transmitter. No matter which rx site is active, there is always the best audio routed from the active sites.

Some voters may actually control transmitters too. It's normally called transmitter steering. Depending on the system's design, the voter could also watch signal strength, special control tones, or first come-first service function. But most voters will function based only on the audio quality of the signals.

The entire purpose of the voter is to allow multiple rx sites, using the same frequency and CTCSS, expanding the coverage area compared to a single rx/tx repeater. This is used in many places for police, fire and rescue, but can also be found in some areas for HAM usage. The main advantage with the system for most is the widespread use of portables (handi-talkies) instead of all high powered mobiles. A rescue squad can issue a portable to every member cheaper and more flexible in operations than a standard mobile. Many portables now feature the capability of being paged, thus eliminating the need for separate radios and pagers.

The Virginia State Police uses a voter for each radio channel, but has the dispatcher select the site for transmit. Many times the site is not the same as the one selected by the voter. The advantage of the voter here is more coverage area with rx from the Trooper.

The system I am consulting on wants to use the selected audio as the single channel feed to a dispatcher, and also use that audio as the transmit audio at the single transmit point (repeater). This allows a portable (5 watt VHF) radio to be used over the entire county, having full repeater operation, and a simple interface for the dispatch. The dispatch will only transmit from a single 100 watt VHF repeater. The voter allows one frequency to be used by all of the people on the agency. This makes a simple-to-use system with portables. No special CTCSS changes, no confusing sites for the dispatcher. All hopefully simple to use!

In HAM use, it could do the same thing. Allowing portables to be used, with multiple rx sites, all tied back into a main transmitter.

Some agencies have also used the voter to select audio to be routed into a simulcast transmit system. The simulcast transmit has every transmitter on and in sync with the frequency. This covers a large area with the same signal, no freq shift or heterodyne between transmitters (when set up correctly). This system has to be maintained carefully to keep everything timed, but its easier with digital control and microwave links.

The voter is used for multiple sites using the same frequency. Different frequencies could be used. This doesn't really help enlarge the coverage area, but I'm sure somewhere, someone has this setup, too! You can get into some silly things with multiple sites and how to control them!

Soon the holidays will be rolling along.....My wish list has so many things, and you know Zach will need a new radio and model train under the tree this year!

Happy holidays, and I'll see you next year! ■

Nostalgic Wavelengths

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(865) 670-1503

Reflecting on VHF Propagation and Equipment

As I write this article, the fall season has just been around a few days. The Sun has crossed the celestial equator and is migrating south. Just before I started writing, it was one of those lazy, warm afternoons with summer seeming reluctant to relinquish its hold. Soft billowy clouds doted the still hazy sky in East Tennessee, and the trees held the vibrant green associated with summer. The daytime high reached 80 degrees.

Just a couple of days ago, I woke up late one night to the orange glow of the planet Mars beaming through my bedroom window. Now wide awake, I decided to grab my trusty HT on the night stand and see what was going on. As I listened to the 146.94 WB4GBI repeater chatter, a couple of unfamiliar stations broke in and joined the group. One was in Memphis, Tennessee (about 400 miles away) and another was in "5 land," perhaps either Arkansas or Mississippi. The signals were very strong and didn't have any noticeable QSB. This was great ducting and it brought back DX memories from the early 1960s.

The great F2 propagation of the late 1950s was waning when I first got active on six meters. My simple equipment from this era did not permit me to partake of the great world-wide DX the local hams were enjoying. My attempt to contact LU3EX during an opening around 1959 was futile.

However, the E-Skip in the early 60s was still fantastic and certainly kept me busy racking up DX contacts. Many of the openings in East Tennessee were to Florida, Texas and the northeast. Some days, it would open in the morning to Florida, close down for awhile, and then open back into Texas. After the 5's dropped out, the band would sometimes close and re-open in the afternoon to New York, New Jersey and other states in the vicinity.

Other days, the pattern might be different with the band first opening to the northeast, and then swinging around the other way to pick up Florida and/or 5 land. And on some days we'd get a good opening into zero land and make contacts in Kansas, Missouri and Colorado.

That was one of the beauties, and added to the excitement, of working E-Skip. It was something you couldn't predict—it was like fishing; you never knew exactly when you'd be able to snag the DX.

One popular notion back then was that you couldn't work double hop E-Skip unless you had at least 100 watts of power and a really big antenna. And even then, so the stories went, the signals would be weak.

Fortunately, a number of six meter enthusiasts didn't know about this. While double hop E-Skip was rare, it certainly did occur. My first meager effort with 40 watts of AM and a simple 4 element beam snagged several California stations and some in Arizona.

But it was that rare (but fantastic) opening in the early 60s that literally covered the entire United States. The band opened early one morning and stayed open continuously throughout the day and into the wee hours of the next morning. California stations were pegging the S-Meter on my SX-25 Hallicrafters receiver. Stations in Washington, Oregon, Arizona and Nevada were up there in signal strength, too .

While all this was going on, DX from the northeast, midwest and Florida area were booming in. It seemed like you could work anyone in the US if you wanted. And if some of the rarer states such as Idaho and Montana had been more active on six meters back then, perhaps it would have happened. I even copied a station in Memphis, Tennessee (short skip) barreling though the crowded band.

And that brings me back to ducting. In

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addition to E-Skip, Six meters was great for ducting when the conditions were good. On several occasions, I worked stations hundreds of miles away with strong signals and minimal QSB.

Returning to the present, it was getting late and I decided to turn off my two meter HT and get some more sleep.

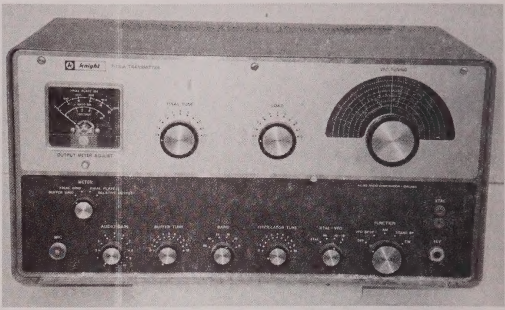
Early Equipment from the 60s

The 1950's period equipment such as the Gonset Communicator transceivers and Harvey Wells TBS-50 transmitters were being joined by a new breed of equipment. Some of it, like the Heath Sixer and HE-45, were economical but very effective. The great E-Skip opening I mentioned above allowed hams from East Tennessee to work Washington and Oregon with 5 watt Sixers and simple antennas—with S-9 signals. I recall one ham from Rockwood, Tennessee (about 40 miles from me), excitedly working a station in Washington state with his Sixer using a 3 element beam.

Those who did not homebrew their transmitters were finding the Heath Seneca 6 and 2 transmitter to be a serious DX instrument. Those who also had low band (HF) interests were finding transmitters such as the Knight Kit T-150 to be a good choice for its 6 meter capability.

A lot of serious transmitters were based on the popular dual 6146 RF tube complement to exceed the 100 watt (input) capability. The transceiver market was also using the 6146. The popular Gonset G-50 was great for DX and local use, and even saw duty in mobile operation. Its single 6146 produced 48 watts input, had an internal VFO, and even boasted a real S-Meter. No tuning eye tube for this transceiver.

Another popular tube for six meters was the 2E26. It produced about half the power of the 6146, but it was much more efficient when used on two meters. Those with crystal controlled transmitters expanded their capability to QSY with an external VFO. If you wanted to really get serious about DX, you needed to be frequency agile. Various commercial VFOs were available, but many hams used modified WW-II ARC transmitters that covered the 8 MCS range.


Knight T-150A transmitter covering HF plus 6 meters. It ran 100 watts on 6, and used a combination of screen grid and controlled carrier modulation and, it had an internal VFO.

While some receivers such as the Hammarlund HQ-110A-VHF covered 6 meters, many did not. The best choice, really, was to get a good six meter converter and pair it up with a good HF receiver. The 7-11 MCs IF was usually chosen. Johnson, Ameco and the International Crystal company were examples.

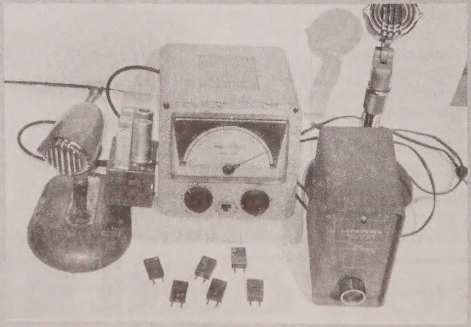
I'll see you six meters—and please pass the word about the "Magic Band."

REFLECTING ON EARLY ITEMS

David Bower, K4PZT

Many hams started using crystal control on six meters. Various companies such as Texas Crystals and Petersen Radio offered crystals in the 8 MCS range for six meters. There were a number of such crystals also available on the surplus market.

The most popular was configured as the FT-243 type. I started with a 8400 KC crystal for 50.4 MCS, and later added crystals for 50.55, 50.7 and 50.1. With the advent of the CW portion of the band from 50.0-50.1, I decided to "grind" the crystal element to increase the frequency up the band. I wound up at 50.128 MCs (a great frequency for DX).

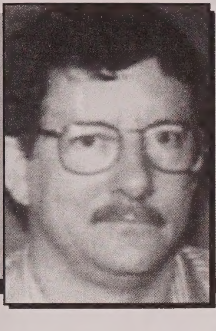

From left to right: crystal element mic, Ameco CB-6 crystal controlled converter, WRL Electronics Model 666 VFO for six meters, Lafayette HE-50 crystal controlled converter, and another crystal mic. In front, 8 MCs range FT-243 type crystals used for six meters

Serious 6 meter hams soon longed to add a VFO for frequency agility, and many used modified WW-II ARC-5 transmitters with a 8 MCs range. Others purchased commercial units such as the WRL Electronics model 666 VFO manufactured in Council Bluffs, Iowa. It had a VFO tuning knob on the right side controlling a large central tuning display. A VFO bandspread was on the left, and a calibrate on-off switch was located at bottom center. It was housed in a sturdy gray metal case with ventilation cover on the top.

Although some HF receivers had 6 meter capability, many hams acquired a crystal controlled converter for their existing HF receiver. One popular converter, the Ameco CB-6, was manufactured by the American Electronics Company in New York. It used two tubes: A 6BZ7 as an RF amplifier, and a 6U8 as an oscillator-mixer. The most popular IF was in the 7-11 MC range, and used a 43 MC crystal. It used automobile type antenna connectors and was housed in a copper-colored chassis box.

Johnson, Lafayette, Internationall Crystal and others also made converters. The Lafayette model HE-50 crystal controlled converter was housed in a nice metal case. It was a simple device with on-off switch on the front and pilot lamp. Three SO-239 connectors were located on the back. One was for the 6 meter antenna, one for the main antenna, and the last for the RF output to connect to the HF receiver.

A popular microphone for hams was the high impedance crystal type offered by such companies as Lafayette. The microphone had a smart looking chrome front, and a shiny bullet-shaped housing. The cable length had to be kept short to minimize AC hum pickup. The unbalanced connector had to be carefully fabricated making sure a nice, shiny solder ball (half a hemisphere actually) formed in the center. The ground shield was tinned and folded back over the spring device and assembled so the screw on the connector body could be tightened over the ground strap and make connection with the metal spring device.



Getting Started

advice for new hams

Jack Mood, SFO, W4HTX
3732 Ashley Hall Drive
Charlotte, NC 28227-6602
w4htx@sera.org

A Rookie's Guide for the Old Salt

(Or how not to discourage the newbie)

OK, it's like this. I am writing this, no, not before deadline, but ON deadline. One thing I was going to work on in the New Year (75% gone...) and I am still procrastinating. (Note to self – make resolutions you can actually keep up with!)

My quotation question for the quizzical in the August issue got no responses. I'll fess up with the answer next January, but I will give you a hint in the right direction. The fellow who said "Let us begin again, for up until now we have done little, or nothing," lived & died in Italy in the early 13th century. The fun that lies ahead is fantastic, I can tell you. Read some of the stuff by futurists like Toffler, Asimov, or even Sagan and you will be amazed. (Another note to self: next issue we'll discuss futurists and their influence on technology.)

Ok, on to this month's topic du jour. I am really writing this for the Rookie column, but my target audience is the experienced ham. Rookies read on, but you old timers keep reading too.

First, if we are to keep the hobby alive, we must continue to sow the seeds, and not forget to cultivate them. Another analogy would be to think of a fireplace in the dead of winter. If you start it, and forget to stoke the coals and tend the fire regularly, you will wake up ***VERY*** cold.

You think about the new person – or the 'prospect' as our sales buddies would say – as a potential ham and you mention the positive aspects of the hobby to him or her, right? Right!

But if you don't follow up on it, you will let the fire go out. It's like planting a garden and never tending it, weeding it, and watering it, and wondering why the heck you got no vegetables for the table. We cannot afford to allow the hobby to die, nor can our country stand the possibility that we will lose a very nice pool of technically minded talent – home grown talent that has come up with some of the most important inventions of the last century. Homegrown talent that is not nurtured will not get far in tech school or college.

We also need to try to start early with the kids. If we do that, we get good operators that are really at the peak of their learning curve. Kids from the age of 3 years to about 14 years old are able to assimilate information faster and more accurately than persons aged 18 to 65. It's proven fact.

I am also of the opinion that young people who catch the bug to learn when they are young continue to learn and grow throughout their lives, more so than kids who aren't inspired young. I have no statistics on it, but I do have some anecdotal information. I know of one man whose father was a doctor. His son was nurtured young, and he became a prodigy. He graduated college (not high school) at 17, medical school at 20 and served his residency by 21. This man continued to learn and grow well in to his late seventies, pretty much until his vision started to fail badly. Even then, this fellow used audiotape and radio to keep current and learn.

I would submit to you that you not only tell your friends about ham radio, but also tell your kids. Get them into helping with construction of some light projects and have them take at least a small part in making something that actually helps around the station. My Dad did this with my brother and me. We both helped him, mostly simple stuff at first. My brother was older, so he got into the more complicated stuff first. I got to hold the solder and sometimes apply it to a joint my Dad had heated. Chip got to help on the checklist and helped count and sort parts from the kit. As we learned more, we were given more important tasks to do. Dad was wise to handle the really complex stuff himself, but he showed us and explained what he did. I was about 5 and Chip was almost 9 years old. I got the jobs that didn't need reading. Each of us put in only a very small part of the total work, but we were soaking up information like a sponge sucks up water. We both ended up in technical fields. I look back at this and it's no surprise to me.

So, don't forget home grown is good! Also, kids tend to take on your good operating and construction habits. They somehow also pick up your bad habits. So be careful about that one. Show them the safe and sane way to do it. Caution is always a good thing, especially when teaching about a hobby that can be as dangerous as ours.

And don't let me catch you snickering that ham radio is not dangerous. Familiarity breeds contempt, or so they say. I have known more than a couple of hams who have been injured badly. I have also read about a number of our brother and sister hams who have been killed while enjoying this wonderful hobby. Keep

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one mindset when learning and teaching. Safety is ALWAYS FIRST! Simple things like reading the safety warnings on the antenna package have saved lives. Not reading the warnings has let ignorance kill. Ignore the warnings at your own risk.

Enough about home grown. We all have a few friends, and we meet new people all the time. Try to think of someone you know who might enjoy being able to communicate in a new or different way. If you meet someone that has a CB or FRS radio, mention ham radio. In the last few months I have invited several people to come to a local club meeting. This is a great way you can help 'grow' the hobby. If you mention ham radio to 20 people this year and one or two visit a meeting, there's two candidates right there.

They also bring in their talents and experience into the club. Not only will they learn, but there's a chance that we may be able to learn from them. I have found that since no one has told rookie hams "That can't be done!" they can come up with some really strange and sometimes useful ideas. One fellow told me that a quad and a Yagi antenna could not be combined into an array. I know most of you will think that it wouldn't work at all, or not very well if it did. I treated the job as a learning experience, and I made the longest distance VHF contact in my log using just that antenna system. It was a 7 element Yagi and a 6 element quad design with a phasing harness to give circular polarization. And it made a 2600 mile distant satellite contact in Packet mode. Often "You can't do it that way!" translates to "Well I have never done it that way so it must not be possible."

Presidential Summit:

SERA President Don Williams W4VT signs up Floyd Ponton KB4WYW, President of the Roanoke Valley Amateur Radio Club and chairman of the Roanoke Hamfest. Don and Mary Catherine signed up 41 membership years for SERA at this small hamfest (an outstanding achievement!). The Roanoke Hamfest will be on July 31^{st} next year.

So if I may suggest all you veteran hams keep an open mind about things and invite your friends to enjoy ham radio. Put them on the air, bring them to the meetings, and invite them to Field Day. Yes, it's already time to plan for Field Day. (The day after Field Day is the best time to start!)

And to you rookies, I can say this. Ask 10 hams how to do something. You will probably get more than 15 0r 20 ideas on how to do it! So you keep an open mind too. It may well be there's more than one way to build an antenna array or whatever. Do some research, find a book, check the Internet or ask a local ham. We old timers and mid level hams are way more than willing to help you. There are Elmers all over. You can get help finding one or more at **www.arrl.org** where you can find info for new hams, and a *club finder.* You can enter your location and it will tell you where the meetings are and usually give a contact number to call. It's great service.

Reminder of the not always so obvious: It's time to check your outdoor antennas and inspect and repair as needed. Winter is one of the more punishing seasons for your outdoor antennas. Let's make sure we aren't going to be stuck up a ladder when the wind chill is well below zero. And those wire antennas need to be checked for kinks and open circuits. Do the maintenance while it's not freezing and you'll be able to do it lots easier. And you might stay on the air through the winter.

So remember, we're listening! Peace and 73! ■

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My 2003 Field Day Experience

Chris Wilkie W1LKE
Jonesboro, Georgia

They say a journey of a thousand miles begins with a single step. Well, this wasn't a thousand miles, but it began with a very ambitious plan. My plan was really simple, to visit as many Field Day operations as possible in 24 hours.

A little background. I have recently been appointed Assistant District Emergency Coordinator for the National Weather Service Office in Peachtree City. This NWS office has a County Warning Area of ninety-six counties in north and central Georgia. My goal was to find the location of as many sites as possible, and visit what I could. I found or was invited to 26 different sites.

This was going to be a meet and greet, shake hands and chat type of mission. I put together a little (if eleven pages are little) handout explaining the operations of Georgia Skywarn, WX4PTC, and the regional weather nets.

Things got off to a bad start earlier in the week. I finished my handout, and wanted to have enough copies to give one to every ham I met. Well, printing page three of the first copy, my printer died. It was 9:05 PM, and Best Buy had just closed. Friday I had to work at the Fire Department at 7 AM. Well I took my paper, in case I could at least get some printed at work. Not a chance–the toner was low on the printer.

I got off work at 7 AM Saturday, got breakfast and went home. Once home, I got cleaned up and changed, packed and loaded. I was off to Best Buy to buy a printer. Once I got to the store, I found a Lexmark Sales Rep there. I asked a million questions, did a little math, and found going to the Kinko's copier place was going to be immensely cheaper. Ran home to get my file disks. Helped a neighbor catch his dog, and was at Kinko's around 1 PM. Finally, at 2PM, my journey began.

First stop, Kennehoochee Amateur Radio Club, on the campus at Southern Polytechnical University, Marietta. Very large group, under a sidewalk overhang. Antennas were everywhere. I think they had 8-10 eight foot tables for their operations. Nice group of people.

Next came Cherokee County ARES. They were located in a park on the shores of Lake Alatoona. They were spread out, and even had maritime operations going. This is the first place I heard about the bands being dead. Good group of people headed up by Steve Hammond. This guy leads by example and you can tell.

Calhoun was next. The operations there were set up at the Cherokee Capital Fairgrounds. Small group with a huge stack of pizzas. I had to pass–I knew if I ate a pizza there wouldn't be a Tums until I got way down the road.

I found my way to Rome. I can't remember the name of the park, but it was a lake serving a hydro-electric plant. Good group going here. While there I congratulated two brand new hams. They tested at the Field Day site. What a way to get more hams!

From Rome I headed to Cloudland Canyon State Park. Small group with probably the highest site in Georgia. If these guys don't mind, I might not make that drive again. Very long drive. I stopped and asked directions on the way, and the lady said, "about two miles down this road. It will be on your right." Ten miles later I stopped again. This time I was told it wasn't even a mile down the road. Five miles later I pulled into the park. Talk about no sense of distance.

From Cloudland Canyon I headed toward Dalton. This drive was well over an hour, maybe close to two. I was beat when I got there, stretched my legs and headed on.

Jasper was next on my list. These guys were in a city park, and had a 1000 foot loop up. They said it was their best antenna. I bet we chatted for an hour.

Leaving Jasper I started looking for a place to bed down for a few hours. Ended up in Roswell first, so I headed over to the park from which the North Fulton ARES was operating. They had all kinds of Ops going. A push-up pole second to none. Dipoles everywhere. Good set-up.

Next I hit GA 400 and headed north. I came upon the turn for the Forsyth county EOC/Ares operation. Well laid-out group, good people for 3 AM. I loved the Italian sausage.

I continued up 400 and found a hotel. Got a room and about 5-6 hours sleep. The shower was great. Leaving the hotel, I decided to bypass the NOGA and Dahlonega sites. They were at private residences, and felt I would be lucky to find them. I turned right onto 400 and right onto Hwy 53, I think it was; destination was now Gainesville College and the Lanierland Radio Club.

I drove, chatting with K4PE on the Atlanta W4DOC repeater. We tried to use his repeater, which he said should have been in range. Well, after driving on Hwy 53 for about 26 miles I finally saw a sign that said I was on 53 west. Hmm, that is strange, it should have read east. I pulled out the map book, found a cross street, made my U-turn and headed East. Penn was so happy to find the problem wasn't his repeater. Apparently I was so tired when I pulled into the hotel, I forgot that it was on the southbound side of GA400.

Eventually I got to Gainesville, chatted for a few minutes and headed out. They were getting ready to take everything down, and I was just going to be in the way. Lawrenceville, here I come.

I came to the EOC first, visited their operations for a few minutes and headed over to GARS. GARS, or the Gwinette Amateur Radio Society, was set up in a park. Excellent setup, lots of antennas. The roast beef sandwiches weren't bad either.

Off to Snellville and the Alford Memorial Radio Club. These guys do the Lawrenceville Hamfest and run W4BOC on "Top of the Rock", also known as Stone Mountain. They were beginning to break down. I chatted with a couple of guys there and turned south for home.

I decided to go by the Fayette County site, but, as I suspected, they had closed up and gone home. Seemed like a good idea, so I did too.

Overall I drove 536 miles, visited 14 sites, met over 100 hams, and recruited a repeater into the Skywarn system. Not bad for 26 hours of work.

Ham Radio saved my life

Gary L. and Estella Auerswald
WB9UDJ and KA9SBY

courtesy of the
Greensboro Amateur Radio Association
FEED LINE

On April 14, 2003 my xyl Estella and I drove to our family farm property to enjoy a beautiful day and gather some Dogwood blooms. We were 1/4 mile from the public road on the private lane when we heard a vehicle coming eratically driven up the posted lane. I walked down about 200 feet from our truck and stopped them and advised them that this was private property and would they please leave.

They were drunk and it is suspected that they had a methanthetimine lab somewhere further back into the woods. They took exception to being asked to leave the property and three of them climbed out of the truck with clubs in their hands and proceeded to announce that they were going to kill me.

The first blow to my head rendered me unconsious and they proceeded to beat me severely. They then got back into their truck and tried to run over me.

As this was taking place KA9SBY was screaming for help on the 2-Meter rig in the truck via the AI9H Repeater in Mt. Carmel, IL, which is in the next county 15 miles away. A Ham couple Robert N9WCC and his xyl Eunice KC9CVK immediately answered the call. N9WCC procceded at a high rate of speed to our location and KC9CVK initiated a 911 call and was requesting an ambulance and law to our position.

KA9SBY was able to get me back into our truck and proceed to a location that would be easier for the ambulance to find us. She was able to direct the ambulance via KC9CVK and 911 to where I could be put in the ambulance. N9WCC arrived at our location and was able to offer assistance until the ambulance arrived.

I was taken to the hospital in Vincennes, IN. I had lost so much blood that the ambulance crew found it almost impossible to start an IV.

After a short stay in the hospital I am now at home but am having some problems with walking and hearing.

The attackers are in jail awaiting a hand smack since they will not be considered anything but poor misguided youth that felt threatened by a single person while they were trying to tend their drug lab.

We are assured that if it were not for the Ham Radio in our truck and the quick assistance by wonderful Hams I would not have survived this attack.

SERA Officers Nominated

The nominating committee appointed by SERA President Don Williams W4VT at the summer 2003 Board Meeting has announced the following recommendations for officers, to take office on January 1, 2004 for two-year terms:

President: Roger Gregory W4RWG. Roger is currently the South Carolina Director.

Vice President: Richard Wright W4LOC. Richard is an Assistant Director for Georgia, and has recently served as the Georgia Director.

Secretary: Alex Hedrick N8FWL. This would be Alex's fifth term. He is also Vice Director for West Virginia.

Treasurer: Johnny Wofford WA4ETE. Johnny is nominated for his third term. He has also served as Director from Tennessee in the past.

Nominations from the floor

Nominations are now open "from the floor," according to SERA bylaws. Any eligible Full Member may nominate another eligible Full Member by carefully following the instructions on the form below, and in the bylaws under "Elections" (available on the SERA web site: **www.sera.org**.

If a nominee for any office is presented and certified to be eligible by the deadline on the nomination form, an 8-state election will be held by mail ballot of all eligible Full Members of SERA. If there are no nominations from the floor, the candidates recommended by the nominating committee will be automatically elected. ■

SERA OFFICER NOMINATION FORM

For the Office of SERA President, Vice-President, Secretary or Treasurer

This completed form must be mailed to the Secretary - postmarked no later than NOON, Nov. 25, 2003.
Note: The Secretary must also be notified verbally by phone no later than NOON Nov. 25, 2003.

To The SERA Secretary:
The below named person is nominated to the Office listed. This person has been contacted and through their enclosed acceptance letter will serve if elected. The nominee is (1) a SERA FULL MEMBER, appropriatly listed as such in the February 2003 Repeater Journal, (2) is not an officer in any other coordination council (3) and fully qualifies under the bylaws of SERA to hold office. It is understood that this nomination from the floor, signed by myself and THREE other elegible SERA Full Members will be added to the nominating committe's list of nominees. This "from the floor" nomination will cause an election to be held by written ballot, mailed to every Full Member in all eight SERA districts

NOMINEE INFORMATION: (Use separate sheet for EACH Nomination - President, Vice President, Secretary or Treasurer)

Nominated for the SERA State office of ____________ (one office per sheet)

Name ____________ Callsign ____________

Address ____________ Phone ( ) ____________

City ____________ State ____________ Zip ____________

Is a representative of the ____________ **Full Member** Repeater System

Person has been contacted and has agreed to serve - [ ] Yes - Acceptance letter enclosed? [ ] Yes

Please include a brief Biographical sketch of nominee on separate sheet of paper - enclosed? [ ] Yes

This SERA Nomination is made and certified by qualified SERA full member:

Name ____________ Callsign ____________ State ____________

Phone [ ] ____________ Signature ____________

I am a member of ____________ SERA Full Member Repeater Group.

Please list three other Full Member Repeater Representatives (each must sign this sheet)

(1) Signature ____________ Callsign ____________

(2) Signature ____________ Callsign ____________

(3) Signature ____________ Callsign ____________

Mail this fully completed form with other necessary paperwork to:

ALEX HEDRICK N8FWL, SERA Secretary, 908 Woodlawn Avenue, Beckley, WV 25801-6430
This mailing must be postmarked no later than NOON November 25, 2003 AND Verbal Notification by Phone (888) HAM-SERA (426-7372) to the Secretary must be made by NOON November 25, 2003.

IMPORTANT: All eligibility conditions, for nominee as per SERA ByLaws, and all requirements of this nomination form must be met for a legitimate nomination from the floor. Otherwise, the nomination must be disqualified as non valid for the forthcoming officer election.

SERA bylaws and further information available at our web site: www.sera.org

SERA Repeater Journal
The Official Voice of SERA, Inc.

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2004 REPEATER FULL MEMBER APPLICATION

THE SOUTHEASTERN REPEATER ASSOCIATION, INC.

Providing voluntary frequency coordination for Amateur Radio repeaters in Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia and West Virginia

Please fill out the this SERA Full Member Application completely. Be sure to list 2 persons as SERA representatives. **ONLY these two will have voting rights, and receive the *Repeater Journal*.** MAIL YOUR CHECK AND APPLICATION TO: SERA FULL MEMBERSHIP, P.O. BOX 215, TOBACCOVILLE, N.C. 27050. Deadline to be listed as member in May 2003 *Repeater Journal* is April 1, 2003.

	CITY/ MTN. ETC. (MAX 14 LETTERS)	RPTR CALLSIGN	INPUT FREQ	OUTPUT FREQ
RPTR #1				
RPTR #2				
RPTR #3				
RPTR #4				

IF YOU NEED SPACE FOR MORE REPEATERS, USE A SEPARATE SHEET OF PAPER

NAME THE TWO PERSONS WHO WILL REPRESENT YOU AND CARRY YOUR VOTE AS A FULL MEMBER. EACH WILL RECEIVE THE *REPEATER JOURNAL*.

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ADDRESS ________
CITY ________ STATE ____ ZIP ____
HOME PHONE #: ( ) ________
E-MAIL ADDRESS: ________
ARRL MEMBER: [ ] YES [ ] NO

NAME ________ CALL ________
ADDRESS ________
CITY ________ STATE ____ ZIP ____
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IF A 2002 SERA REPEATER DATASHEET WAS NOT RECEIVED LAST OCTOBER, INDICATE PERSON'S NAME AND ADDRESS TO SEND THE 2003 SHEET TO:

NAME ________ CALLSIGN ________
ADDRESS ________ CITY ________ STATE ____ ZIP ____

■ **IMPORTANT NOTE: ONLY OFFICIALLY SERA COORDINATED ON-AIR, OPERABLE REPEATERS ARE ELIGIBLE FOR SERA FULL MEMBERSHIP.** An application for SERA Full Membership status, and the payment of the respective dues thereof, does *NOT* constitute coordinated status for the repeater(s) listed on this application or accompanying sheets. Contact your local coordinator to learn how to obtain coordinated status.

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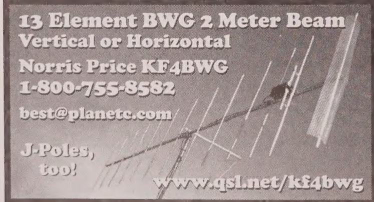

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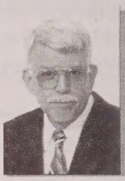

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THANKS FOR A GREAT 2003!

The SERA *Repeater Journal* Southeastern

HAMFEST/CONVENTION CALENDAR

Hamfest dates marked with an asterisk (*****) are ***not*** confirmed and are estimated from the previous year's date.

We urge hamfest sponsors to send their correct dates to the *Repeater Journal* editor as soon as possible (**editor@sera.org**).

We acknowledge and appreciate assistance in confirming dates from SERA & ARRL Directors, the ARRL, commercial dealers, and many clubs and individuals.

Deadline for February Issue is January 1, 2004

NOVEMBER, 2003

1-2 .... Stone Mt. Hamfest, LAWRENCEVILLE, GA
7-8 (Fri-Sat) ... Baton Rouge ARC Hamfest, BAKER, LA
8 .... *new location* - Beachfest, MYRTLE BEACH, SC
8 .... Hamfest at St. Fairgrnds, MONTGOMERY, AL
15 .... ***new hamfest*** - GAARC Swapfest, GASTONIA, NC
16 .... JARSFEST at American Legion, BENSON, NC
14-15.. Jackson Co. ARA Hamfest, OCEAN SPRINGS, MS
29 .... EARS Hamfest, EVANSVILLE, IN

DECEMBER, 2003

none

JANUARY, 2004

3 .... Lakeway ARC 'fest, NG Armory, MORRISTOWN, TN
10 .. Southwest Ohio Digital Symposium, MIDDLETOWN, OH
10 .... Hamfest, GREENWOOD, SC
17 .... ***free*** SE LA ARC Hamfest ., HAMMOND, LA
17 .... SCARA Hamfest at Civic Center, GALLATIN, TN

FEBRUARY, 2004

6-7 (Fri, Sat) .... MS St ARRLConv/HF, JACKSON, MS
7 .... Charleston ARS Hamfest, CHARLESTON, SC
7-8 .... Dade RC Tropical Hamboree, MIAMI, FL
13-15 .... Orlando ARC HamCation, ORLANDO, FL
14-15 .... DixieFest Hamfest, MEMPHIS, TN
8 .... Mansfield Mid*Winter Hamfest, MANSFIELD, OH
21 .... Hernando Co. ARA Hamfest, BROOKSVILLE, FL
22 .... FrostFest, RICHMOND, VA
22* .... Hamfest, Nat'l Grd. Armory, ELKIN, NC
28 .... Dalton ARC Hamfest, DALTON, GA
TBA .... Vienna Wireless Winterfest, ANNANDALE, VA
29 .... Hamfest, FAYETTEVILLE, WV

MARCH, 2004

6 .... AR River Val. Hamfest, RUSSELLVILLE, AR
6 .... Kerbela Hamfest at Temple, KNOXVILLE, TN
TBA .... North Arkansas ARS Hamfest, HARRISON, AR
12-14 .... Acadiana ARA Hamfest, RAYNE, LA
13-14 .... Hamfest/Computer Show, CHARLOTTE, NC
13 (tent) . 26th Mam. Cave ARC Hamfest, CAVE CITY, KY
13* .... Hamfest, PORT CHARLOTTE, FL
20 .... Playground ARC Hamfest, FT. WALTON BEACH, FL
20 .... Hamfest at Coonskin Armory, CHARLESTON, WV
20 .... Gulfcoast ARC HF, NEW PORT RICHEY, FL
20-21 ... MTARS Hmfst, TN ARRL Conv., TULLAHOMA, TN
21 ... Toledo Mobile Radio Assn. Hamfest, MAUMEE, OH
21 .. DownEast Hmfst - Lenior County FG, KINSTON, NC
28 .... Lake County ARA Hamfest, MADISON, OH
27-28 .... Baltimore ARC Hamboree, TIMONIUM, MD

APRIL, 2004

3 .... Lincoln Train ARC Hamfest, ELIZABETHTOWN, KY
3 .... Union County ARC Hamfest, UNION, SC
3* .... Hamfest at Bradley HS, CLEVELAND, TN
3* .... Tailgate Party, JACKSONVILLE, FL
3 .... ArkieCon Hamfest, FT. SMITH, AR
4 .... RARS*Fest*, ARRL State Convention, RALEIGH, NC
11* .... Eastern Shore Hamfest, EASTON, MD
17 .... Catawba Val. HF & Comp., MORGANTON, NC
23-24 .... Little Rock Hamfest, LITTLE ROCK, AR
23-24 .... SE VHF Conference, Huntsville, AL
24 .... Chesapeake ARS Springfest, CHESAPEAKE, VA
24 .... Gainesville ARS Hamfest, GAINESVILLE, FL
24 .... Cherokee Capital ARS Hamfest, CALHOUN, GA
30-May1*(Fri-Sat) Baton Rouge ARC Hamfest, BAKER, LA

MAY, 2004

TBA .... Midwest Div. ARRL Conv/HF, LEBANON, MO
1* .... Upstate SC Hamfest, SPARTANBURG, SC
1* .... Big Sandy ARC Hamfest, LOUISA, KY

Is your hamfest listed correctly?

(does it still have a dreaded "*")

Have we missed one?

Please e-mail the editor at:

editor@sera.org

1* .... Hamfest, GRASONVILLE, MD
1-2* .... Birminghamfest, BIRMINGHAM, AL
2 .... Jackson County ARC Hamfest, RIPLEY, WV
8* .... DurHAMfest, NG Armory, DURHAM, NC
8 .... Johnson County ARC, MOUNTAIN CITY, TN
14-16 .... Dayton Hamvention, DAYTON, OH
15* .... Roanoke ARS Swap Fest, WILLIAMSTON, NC
TBA (Fri-Sat) .... Jackson Co ARA, PASCAGOULA, MS
22 .... Hopkins Co. ARA, MADISONVILLE, KY
23* ...... MFMA Mem. Day Hamfest, West Friendship, MD

JUNE, 2004

5* .... Atlanta RC Hamfest, ATLANTA, GA
5* .... Northern KY ARC Hamfest, INDEPENDENCE, KY
6 .... Ole VA Hams, Hamfest at FG, MANASSAS, VA
TBA ...... W-S Classic at Dixie FG, WINSTON-SALEM, NC
11-12 (Fri-Sat)RACK Hamfest, TN ARRL, KNOXVILLE, TN
12* .... Nashville ARC Hamfest, SMYRNA, TN
12 *(tent)*... Pig Pickin'/Tailgate (exams), FRANKLIN, VA
12* ...... Dekalb Co. ARC Tailgate Outing, FT. PAYNE, AL
19 .... Tailgate Party, CHESTER, SC
19* .... Hamfest (free), SILVER POINT, TN
20* .... Frederick ARC Hamfest, FREDERICK, MD
26-27 .... **ARRL FIELD DAY**

JULY, 2004

3 .... Firecracker Hamfest, Civic Center, SALISBURY, NC
10 .... Lanierland HF, GAINESVILLE, GA
16-17 (fri-sat) .... Milton ARC Hamfest, MILTON, FL
17 .... Midsummer Swapfest, CARY, NC
17* .... RCARS Hamfest at Cdr Pt. Pk, DAYTON, TN
24* .... OH-KY-IN ARS Hamfest, CINCINNATI, OH
31* ... WCARS Hamfest, Hywd Co. FG, WAYNESVILLE, NC
25* .... BRATS HF and Computer Fest, TIMONIUM, MD
31 .... Roanoke Valley Hamfest, (Vinton) ROANOKE, VA

AUGUST, 2004

1 .... 52nd Annual Winchester HF, BERRYVILLE, VA
1* .... Portage ARC Hamfair, RANDOLPH, OH
1* .... Land of Lakes Hamfest, ANGOLA, IN
7* .. Voice of Aladdin ARC HAM-OH-RAMA, COLUMBUS, OH
14* .... Valdosta ARC Super-Tailgate, VALDOSTA, GA
14* .... TARA HF & Comp. Show, HUNTINGTON, WV
8* .... Bluegrass ARS hamfest, LEXINGTON, KY
8* .... Carroll County ARC Hamfest, WESTMINSTER, MD
21* .... Ellijay ARS Hamfest, ELLIJAY, GA
21-22* .... Hamfest, AL Sec. Conv., HUNTSVILLE, AL
15* .... Warren ARA Hamfest, WARREN, OH
21-22* ... WV State Conv/HF, (Jksons Mill) WESTON, WV
29* .... Short Mt. Repeater Club, Hamfest, LEBANON, TN

SEPTEMBER, 2004

4-5 .... Shelby ARC Hamfest, SHELBY NC
4* .... Owen County ARA Hamfest, SPENCER, IN
11 .. *new location* Louisville Hfst Assn., LOUISVILLE, KY
11 .... Monroe ARS Swap Meet, MONROE CO., TN
11* .... Paulding ARC Hamfest, DALLAS, GA
11-12* ... Columbia ARA/FAR Hamfest, FRIENDSHIP, MD
11-12* .... Findlay Radio Club Hamfest, FINDLAY, OH
18* .... CAREN - ARRL St. Conv., LITTLE ROCK, AR
18-19* .... VA Wesleyan, VIRGINIA BEACH, VA
19* .... Greater Cinci ARA Hamfest, CINCINNATI, OH
26* .... Hamfest Assn. of Clev. HF, CLEVELAND, OH

OCTOBER, 2004

1-2* .... (Fri-Sat) Ten-Tec Hamfest, SEVIERVILLE, TN
2* .... York Co. Tech College, ROCK HILL, SC
3* .... Hoosier Hills Ham Club, BEDFORD, IN
9* .... Hamfest, STARKE, FL
9* .... ARC of Augusta, HF/Comp Show, EVANS, GA
10* .... Hamfest, MAYSVILLE, NC
14 .... CATS Hamfest, CLARKSVILLE, TN
16* .... NW GA ARC Hamfest, ROME, GA
16* . Oak Ridge ARC Hamfest, FOE Bldg, OAK RIDGE, TN
23* .... HF at C.Jordan in E.Ridge, CHATTANOOGA, TN
23* .... Sumter ARC Hamfest/Comp. Fair, SUMTER, SC
24* .... Massillon ARC Hamfest, CANTON, OH
24* .... Mason-Dixon Hamfest, WESTMINSTER, MD

2005 CONFIRMED DATES

April 10 .... RARSFest, RALEIGH, NC

2006 CONFIRMED DATES

April 9 .... RARSFest, RALEIGH, NC

SQUELCHTALE

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To mod, or not to mod?

Your pupils dialate. Your pulse quickens. Your breathing is quick and shallow. In your hand you are holding a radio that will transmit ouside the ham bands. It has been "modified," and if you choose, you could be heard by your local police or fire department.

I recognize these symptoms. I had them when I soldered a diode into my first dual-band handheld, an Icom 32AT, back in 1990, "opening" the transmitter for out-of-band operation.

Twelve years later, when I arrived at the Perquimins County 911 center to help with communications after Hurricane Isabel knocked down the county tower, I found I could do more than just operate ham radio. I could set the dispatcher up with the ability to talk at least locally to police cars and fire trucks on their frequencies. The 911 center had no radios or antennas. But I had brought a dual-band mag mount, some coax, and a couple of handheld radios (newer than the 32AT) that were modified to transmit outside the ham bands. (See story on page 6).

Using ham radios to transmit outside the ham bands is illegal, unless there is an emergency and no other means of communication is available. Modifying them so that they can do so is not illegal. Many radios have what is called a "MARS/CAP" mod that in reality opens the transmitter to cover most of the commercial and public-service spectrum adjacent to the VHF and UHF ham bands.

You can find out how on the web. The "modification" typically involves removing a very small surface-mount diode or two. I've become adept enough with a small soldering iron and magnifying glass that I can perform the operation on my own radios. I wouldn't want to have to solder that little flake of silicone back in, however. And don't ask me to do it on your radio.

Why do it?

I guess my best answer is "because you never know." My Perquimins experience was one of only two times that the mod proved both useful and legal. The other was when I was shadowing a Raleigh police sergeant as ham/police liaison during a charity race. He needed to quickly instruct officers a few blocks away to close a street to traffic, as several hundred runners were about to stream down it. His HT battery died inconveniently. I handed him my radio and he got the job done.

Why not do it?

Check your pulse. It's illegal unless there is an emergency (immediate threat to life or property), and no other means of communication is available. Do you find the urge to seek out the nearest emergency and do your imitation of 1 Adam 12?

Hams and non-hams are also tempted to use modified radios for business, fire/police/EMS communications, FRS/GMRS and such because they are convenient and sometimes cheaper than commercial radios. But they are not FCC Certified for that use.

Here are some of the real problems you can run into:

Spectral purity. Manufacturers don't design or test the radios to meet specs for out-of-band operation. They may be "dirty," with harmonics or spurs. Deviation might be too high, and the radio might be off frequency. For sure the antenna will be wrong.

Complicated operation. Do you think we hams find our radios complex to operate? Non-hams are used to volume and channel controls (squelch disappeared a few years ago). Our radios are very flexible, but that flexibility is a liability in the hands of a non-ham. Have you ever tried to move from one repeater to another when talking to a ham? Have they (or you) disappeared into a black hole in the attempt (wrong frequency, wrong offset, wrong tone...)?

Temptation to play. So, you can transmit on the local police channel (if your local cops haven't moved to 800 MHz). How do you *not* do that? What is your measure of self-control? How sweaty are your palms right now?

I've actually been amazed at how little trouble there has been, or at least how little we've heard about, considering how easy it is to modify the radios, and how vulnerable a police radio system is. And then, just as I was preparing this editorial, the FCC sends letters to a handful of hams who were messing around with police frequencies.

Two of the stories came from North Carolina. Last winter, a couple of young hams (KF4LNE and KG4SXD) created some havoc on the Black Mountain Police Dept. channels–screaming, foul language and "embarrassing stuff," according to police chief Alan Willet. An informant turned them in, they were charged, and the charges were dropped when they promised to stop. But the FCC is still looking into it from their angle.

An Indiana ham, Justin Whaley KC9DCP, has agreed to turn in his license for a couple years after the FCC tracked him down by direction finding while he disrupted Columbia City police communications. And Tom Christman KB2NAV, of Albany, New York, used to work for the county Sheriff as a radio tech. After leaving the department, he made some transmissions he wasn't supposed to on their channel with his modified ham radio. The police department is asking the FCC to revoke Christman's license.

Black Mountain Police Chief Willet called the interference to his police communications "hair-raising" at the time. Now he characterizes the episode as the kids just being "mischievous." But he said it could have been more serious.

Actually, it should scare the hell out of him, and every other police and fire chief who knows how much they depend on their radios, and how easy it would be to block communications.

A few years ago, Congress passed laws that prohibited scanners from receiving cell phone frequencies after a few prominent politicians got caught doing things they shouldn't be doing by people eavesdropping on their conversations. Manufacturers winked at first, but the FCC cracked down, there were Congressional hearings and everything. Now, you just don't hear anyone bragging that they can modify a scanner to hear the phones.

Absent a political scandal, "radio mods" might not be next. But in our climate of homeland security, I wouldn't be surprised, if the word gets around.

If you, like me, are a member of the "mod squad," I hope I won't be reading your callsign in one of Riley's letters. Do you wish *you* could find a legal reason to transmit out of band? Or worse, do you find it impossible not to play, just a little, with your local police department's repeater system?

Maybe you should find a way to put the diode back in.

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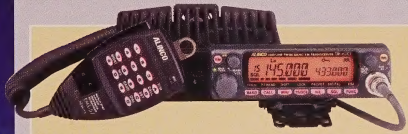

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